

SAIT TECH CAPCON



Technology Capstone Projects Showcase

VIEWBOOK - SUMMER 2025



**Photo from the previous Tech Capcon (Winter 2025, April)*

SAIT Tech CapCon is a capstone showcase presenting 100 + tech solutions from 600 + students across diverse disciplines at SAIT's School for Advanced Digital Technology, celebrating creativity, applied expertise, and collaboration.

Our last Tech Capcon



SAIT SCHOOL FOR
Advanced
Digital
Technology



Soon-to-graduate SAIT students participate in Tech CapCon 2025

By Kevin Elletts
Published: April 23, 2025 at 5:23PM EDT



Kevin Elletts shows Jessica Whiting his team's Neutral Ground App, a political information hub for students voting in the upcoming federal election.

Winter
2025

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Welcome Message

SAIT TECH CAPCON: Where Calgary's brightest tech talent meets real-world impact

Welcome to the future; crafted by over 100 student-led capstone projects that push boundaries, solve real problems, and ignite possibility. This isn't just a showcase. It's a launchpad for the next wave of innovation in software development, cybersecurity, data analytics, film, interactive design, and beyond. Every project is the result of relentless curiosity, late-night breakthroughs, and deep collaboration with industry. These aren't classroom exercises, they're bold solutions built for the real world.



Cherie Bowker

Dean

School for Digital Advanced Technology

These projects are more than academic milestones; they're proof of what's possible when education meets industry. Behind every prototype and presentation is a partnership, a challenge, and a story of collaboration. Now, we're inviting you to be part of that story.

If you're an industry leader, employer, or community builder, here's how you can shape what comes next:

- Capstone projects: Bring a real-world problem to a group of skilled students ready to solve problems.
- Inspire the Next Generation: Visit a classroom or be a guest speaker to share your journey and inspire others to learn from it.
- Host a Practicum or Internship: Give students the experience that transforms potential into performance.
- Explore the Cyber Range: Tour our downtown Cyber Range and collaborate with us on how we can use this space to create the skilled workforce that you need.

Let's build the future together.

SAIT Tech Capcon at a Glance

+100
Capstones
Projects

+600
Students
Involved

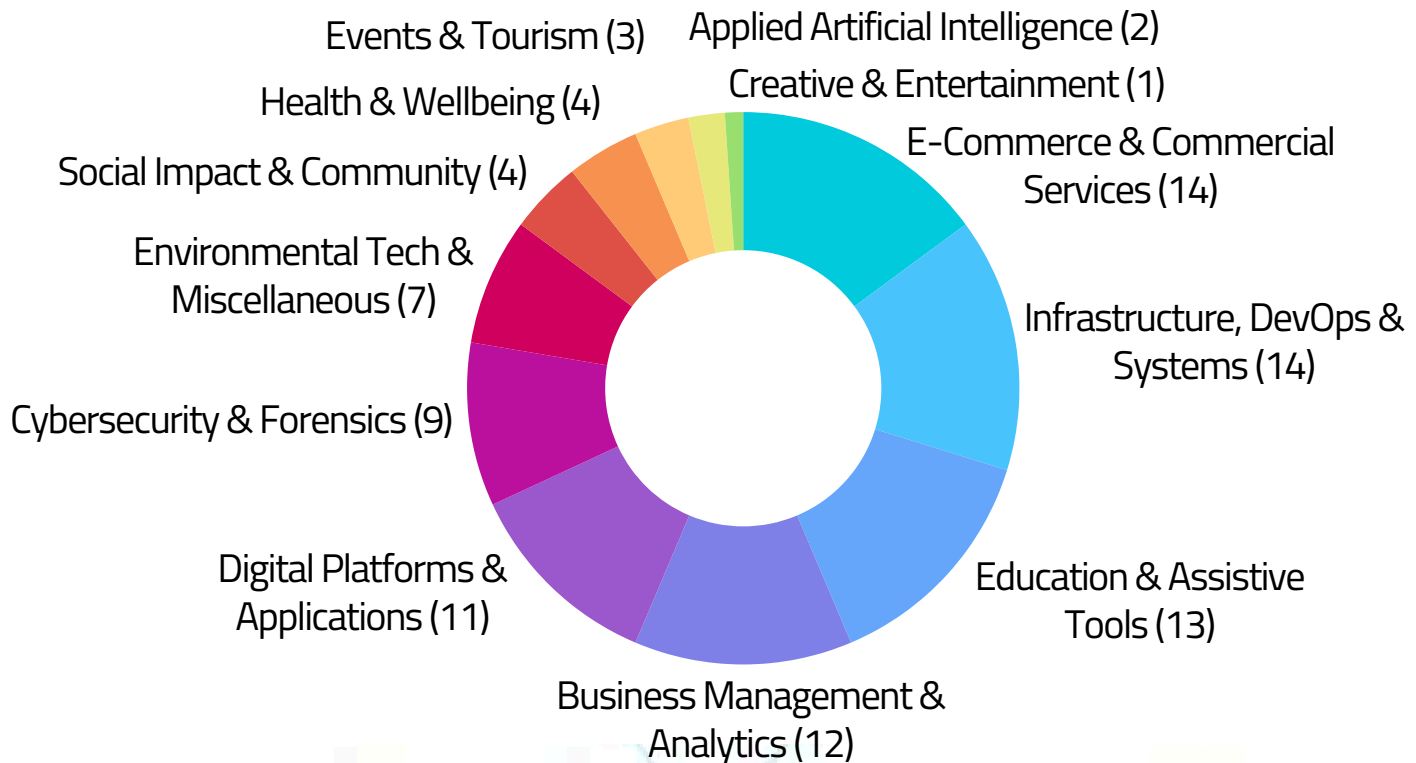
12
Instructors
Guiding

+40
Industry
Partners

This semester, we are featuring students from the following Programs:

- Software Development
- Information Technology Services
- Information Systems Security
- Interactive Design
- Data Analytics
- Film and Video Production
- Interdisciplinary Program Capstone

Which Solutions Will You Explore?



SADT Faculty and Staff

Organization Committee



Enrique Garces
Project Coordinator
Event Organizer



Autumn Heinze
Industry Liaison



Terry O'Dwyer
Industry Liaison



Subrata Biswas
Academic Chair
Information Technologies
Services Program - 1st Year



Ali Moussa
Academic Chair
Software Development Program



Maria Elena Navas
Program Assistant

Capstones Projects Instructors



Lincoln Constable
Capstone Project Instructor
Film & Video Production



Matthew Watterworth
Capstone Project Instructor
Film & Video Production



Pranab Das
Capstone Project Instructor
Information Technologies Services



Candace Van Apeldoorn
Capstone Project Instructor
Interdisciplinary Programs



Tamanna Malik
Capstone Project Instructor
Interdisciplinary Programs



Piyushi Singh
Capstone Project Instructor
Information Systems Security



Ralph Gonzales
Capstone Project Instructor
Interdisciplinary Programs



Ramin Nassiri
Capstone Project Instructor
Interdisciplinary Programs



Majid Amirfakhrian
Capstone Project Instructor
Data Analytics



Mamta Verna
Capstone Project Instructor
Software Development



Anwar Alabbas
Capstone Project Instructor
Software Development



Mehdi Shokrani
Capstone Project Instructor
Software Development



Lou Girardo
Support Instructor

Academic Chairs



Shon Noda
Academic Chair
Film & Video Production,
Interactive Design and RTBN



Ali Moussa
Academic Chair
Software Development - 2nd Year



Carla Marioni
Academic Chair
Cybersecurity



Subrata Biswas
Academic Chair
Information Technologies
Services - 1st Year



Roderick MacIntosh
Academic Chair
Information Technologies
Services - 2nd Year



Kim Noble
Academic Chair
Data Analytics



Andrew Stevenson
Academic Chair
Software Development - 1st Year

How to participate in/sponsor a Capstone Project?



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Digital
Technology

4 Month Project | Tangible Outcomes | No Cost



Some Previous Tech Solutions Developed:

- AI-powered customer-service chatbot
- Cloud cost-analytics dashboard (AWS/Azure)
- Augmented-reality training module
- End-to-end DevSecOps pipeline
- IoT sensor network + live dashboard
- Cyber-risk posture assessment
- XR marketing experience
- Data-driven supply-chain optimiser
- Music & Entertainment Content
- Promotional & Commercial Videos
- Documentaries & Testimonials

What Makes a Capstone Succeed?



Right-sized scope
4-month sprint ≈
120–150 student
hours



Clear, measurable outcomes
A demo or
prototype you can
use day one



Occasional Check-points
60 min of feedback
keeps the build on
target



Important but not Mission-Critical
Space to innovate
without production
risk

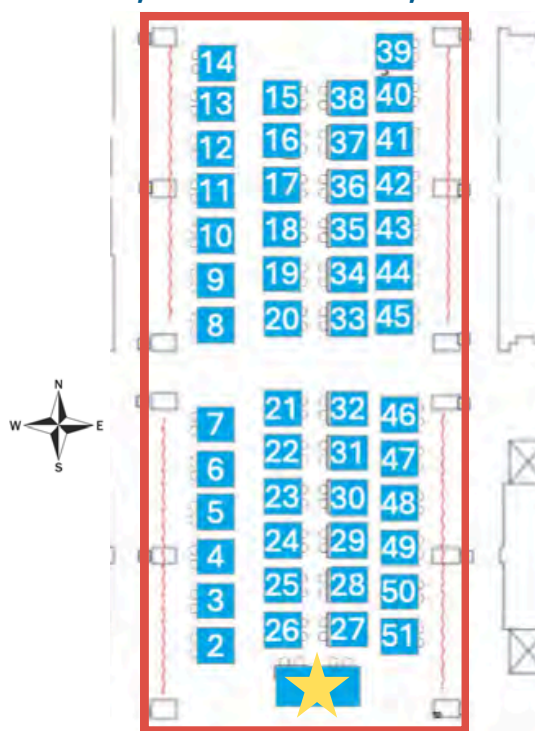
Not sure where to start?

✉ Please reach out to **Autumn Heinze** for more information Autumn.Heinze@sait.ca

Important Info for the Tech Capcon 2025

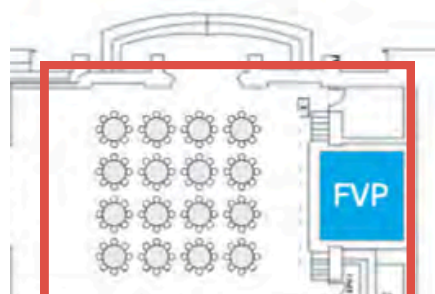
Tech Capstones Projects

SAIT, Irene Lewis Atrium, Stan Grad



Film & Video Production Capstones Projects

SAIT, MacDonald Hall



Agenda (2 Different Sessions)

AM Session:

- 9:15am - 9:30am Dean's Welcoming
- 9:30am - 12:00pm Tech Capcon Morning Session

PM Session:

- 12:45pm - 1:00pm Dean's Welcoming
- 1:00pm - 3:30pm Tech Capcon Afternoon Session

Two showcase venues

- Irene Lewis Atrium for Tech Capstone projects
- MacDonald Hall for Film & Video Production Capstones
- **Venue Walk-through:** [▶ Watch Video](#)

Attendee Check In

- ★ Reception – Booth #1
- Have your QR code ready for check-in.
- Collect your name badge here.

Essential Details

- 🚗 **Transit & Parking:** [Plan your Route](#)
- 🗺️ **Campus Map:** [View Map](#)
- ☕ **Industry Lounge – Room AA110:** free coffee & water
- 🚻 **Restrooms Walk-through:** [▶ Watch video](#)
- 📶 **Free Wi-Fi:** sait-guest (no password)
- ♿ **Accessibility:** all spaces are barrier-free
- **Enquiry?**
 - Maria Elena Navas: MariaElena.Navasbambaren@sait.ca

Program: Information Technology Services

About the Program

This two-year program delivers action-based, industry-supported training in IT fundamentals, cloud services, security and emerging technologies.

Academic Team



Subrata Biswas
Academic Chair
Information Technologies
Services Program - 1st Year



Roderick MacIntosh
Academic Chair
Information Technologies
Services Program - 2nd Year



Pranab Das
Capstone Project Instructor



Candace Van Apeldoorn
Capstone Project Instructor



Tamanna Malik
Capstone Project Instructor

Capstone Projects

14

Capstones
Projects

3

Solution
Types

85

Students
Involved

Digital Platforms & Applications

End-user web/mobile apps or multi-feature platforms for content, productivity, or general services.

- **StudentSolution**
- **A Lightweight Tool**
- **RoomyShare**
- **Online Preorder and Inventory System**
- **Web Based Management System**
- **Cloud Link**

Infrastructure, DevOps & Systems

Projects that build or automate core IT infrastructure, cloud environments, networking, or system-admin workflows.

- **Verse Zero**
- **SAFESYNC**
- **Automated Virtual Machine Maker**
- **PengWin**
- **Secure CI/CD for Microservices**
- **Disaster Recovery Project**
- **Ransomware Simulation Lab for Cybersecurity Training**

Cybersecurity & Forensics

Tools, simulations, and frameworks that protect systems, detect threats, or investigate digital evidence.

- **Raspi Shield**

Program: Information Technology Services

Schedule and Booths (1 of 2)

AM/ PM	Booth	Project Name	Short Description
AM	42	Verse Zero	Provide affordable, scalable offline internet servers for underserved communities.
AM	17	StudentSolution	One-click virtual labs enable error-free, instant hands-on learning for educators and students.
AM	43	SAFESYNC	Affordable cloud backups guard small businesses against data loss, downtime, and disasters.
AM	18	A Lightweight Tool	Online portal tracks policy acknowledgements, giving admins downloadable compliance records effortlessly.
AM	19	RoomyShare	ML-powered app suggests fashion items from preferences and history, ensuring secure personalized experience.
AM	44	Automated Virtual Machine Maker	Automates cloud VM provisioning, eliminating manual steps and expertise barriers, saving time and money.
AM	45	PengWin	Simplifies Linux DHCP and setups with user-friendly interface for reliable configurations.
AM	46	Secure CI/CD for Microservices	Docker + GitHub Actions automate tests, security scans, deployments for small dev teams.
AM	20	Online Preorder and Inventory System	Web app lets customers pre-order pastries, schedule pickups, improve inventory, reduce waste.
AM	21	Web Based Management System	Web system streamlines scheduling, tasks, and time management during digital transition.

Program: Information Technology Services

Schedule and Booths (2 of 2)

AM/ PM	Booth	Project Name	Short Description
AM	47	Disaster Recovery Project	Simple cloud solution ensures affordable business continuity for small enterprises during outages.
AM	8	Raspi Shield	Raspberry Pi Vaultwarden secures passwords locally, removing cloud risks, enabling remote access.
AM	48	Ransomware Attack Simulation and Incident Laboratory	Interactive lab teaches threat detection, response, recovery through realistic ransomware scenarios.
AM	22	Cloud Link	Aggregates multiple free cloud services into one secure, organized portal for easier management.

Program: Information Technology Services

Verse Zero

#42 Booth

AM Session

Project Description: Our idea will allow internet access for individuals who can't access it or have limited access. We will provide an affordable and scalable server to offer internet information to populations that otherwise wouldn't have accessibility.

Team: Destiny Cooper, Ryan Johnson, Moks Garg, Rishav Sharma, Simran Simran, Navdeep Kaur, and Rahmatu Abdullahi Liman.

Solution Type: Infrastructure, DevOps & Systems

StudentSolution

#17 Booth

AM Session

Project Description: Imagine if every student could launch a fully working lab with a single click—no errors, no delays. Our platform delivers preconfigured, downloadable, or web-hosted labs that simplify learning and teaching, making hands-on education as seamless as opening a webpage.

Team: Vanja Tilinger, Evandro Cesar Sanches, Kedri Phillips, Ashvi Kalidas Patel, Augusta Okeke, Kristoffer Borchert, and Joshua Saji

Solution Type: Digital Platforms & Applications

SAFESYNC

#43 Booth

AM Session

Project Description: Small businesses often operate without a disaster recovery plan, leaving their critical data vulnerable to accidental deletion, hardware failure, cyber-attacks, or natural disasters. Many rely on local storage such as laptops, USB drives, or office desktops, which can be easily lost or corrupted. In the event of data loss, these businesses risk significant downtime, customer dissatisfaction, and potentially permanent damage to their operations. Without automated, secure, and offsite backups, recovery becomes manual, slow, and unreliable, often relying on outdated or incomplete files.

Team: Charlie Khu, Jainam Patel, Shaurya Uppal, Jashanpreet Singh Kapoor, Kevin Vuong, and Sohani

Solution Type: Infrastructure, DevOps & Systems

Program: Information Technology Services

A Lightweight Tool

#18
Booth

AM Session

Project Description: Imagine a simple online tool that ensures all your employees have read and acknowledged critical IT and security policies — no more guesswork, no messy spreadsheets. Our portal lets employees check off policies with their name and date and gives admins downloadable records — all in one secure, easy-to-use platform.

Team: Bharat, Bhargav, Chirag, Mohammad, Vedant, Yash, and Divy

Solution Type: Digital Platforms & Applications

RoomyShare

#19
Booth

AM Session

Project Description: This feature will provide fashion recommendations based on user preferences and browsing history. We'll employ React/Angular for the frontend and Python with machine learning algorithms for generating personalized suggestions. The app will use SQL/NoSQL databases for storing user profiles and preference data. Secure user authentication will ensure privacy and data protection, and server programs will efficiently manage recommendations and user interactions.

Team: Luke, Alex, Victoria, Janeh, Umar, and Mitchell

Solution Type: Digital Platforms & Applications

Automated Virtual Machine Maker

#44
Booth

AM Session

Project Description: Setting up virtual machines in the cloud requires technical knowledge and lots of time-consuming manual steps. These steps are complicated by decisions like choosing the right cloud services or by steps such as networking or installing software. As a result, it can be time-consuming to learn how to set up these cloud environments or expensive to pay for someone with the knowhow to set up cloud resources.

Team: Grace Elis Torio, Eric Kim, Warren Peng, Donnel Demetillo, Calvin Leong, and Dylan Yee

Solution Type: Infrastructure, DevOps & Systems

Program: Information Technology Services

PengWin

#45 Booth

AM Session

Project Description: If you have ever tried doing DHCP on Linux, you'll know that it takes some time, and even when you finish it, something always seems to be NOT working. Its a long process of troubleshooting and iover until FINALLY IT WORKS! The idea that we can skip all of that be able to attend training no matter what machine they are at. We strive to ensure that these instances are quick and easy to navigate through so that everyone is able to understand.

Team: Aira, Amrit, Carl, Chan, Yug, Angelo

Solution Type: Infrastructure, DevOps & Systems

Secure CI/CD for Microservices

#46 Booth

AM Session

Project Description: We're developing an automated CI/CD pipeline using Docker and GitHub Actions to streamline code testing, security scanning, and deployment. This solution empowers small businesses and startups—especially those without dedicated DevOps teams—to seamlessly adopt and deploy microservices into their websites or applications. Its cost-effective and low-maintenance approach supports rapid growth while ensuring high stability and strong security. By automating complex infrastructure tasks, we make modern DevOps practices accessible to everyone.

Team: Jevin Pagente, Navneet Singh, Sidak Gambhir, John Lobaton, Inderjit Singh, and Rhoda Trisha Darnayl

Solution Type: Infrastructure, DevOps & Systems

Disaster Recovery Project

#47 Booth

AM Session

Project Description: Fail-safe Solutions help small businesses protect their data with an affordable, cloud-based disaster recovery system. It's simple to set up and ensure business continuity during outages—unlike expensive and complex enterprise solutions.

Team: Gagandeep, Karamveer, Karkamal, Jashanpreet, Harwinder, Satnam

Solution Type: Infrastructure, DevOps & Systems

Program: Information Technology Services

Web Based Management System

#21
Booth

AM Session

Project Description: Web Based Management System. As Chinook Glass & Screens LTD is currently in the process of transitioning to a manual based system to a more technologically inclined system, the project management system can help them with the following: Increase efficiency of employees in other tasks, Streamline scheduling and task assignment, and Effective time management.

Team: Jerahmeel Hernandez , Ajie Dustin Pante , Paul Salonga, Thi Thanh Hien Pham, Perciral De Guzman, and John Ross Pasion

Solution Type: Application

Raspi Shield

#8
Booth

AM Session

Project Description: These days, we sign up for so many online accounts that it's almost impossible to keep track of all the passwords. A lot of people just let Google remember them, but that can be risky — if someone gets into your Google account, they basically have access to everything. The problem is, if your Google account is compromised, all your stored passwords are at risk. My project addresses this by building a self-hosted password manager using a Raspberry Pi and Vaultwarden—an efficient, lightweight implementation of Bitwarden. This Raspberry Pi device connects to the user's home router and acts as a secure personal server for managing credentials.

Team: Tiffany Phuong Uyen Le, Tyas Marion, Ennio Cardozo Rivera, Lemuel Hernandez Rodriguez, and Elizabeth Oghenefejiro Ovuen

Solution Type: Cybersecurity & Forensics

Program: Information Technology Services

Ransomware Simulation Lab for Cybersecurity Training

#48
Booth

AM Session

Project Description: Create a controlled lab where you can help cybersecurity students practise threat detection, response, and recovery, we developed a realistic, interactive ransomware simulation lab. It's a secure method of developing practical skills that go beyond theoretical.

Team: Rajpreet Kaur, Nikita Saini, Lovepreet Kaur, Anureet Kaur, Jay Naik, and Vraj Shah.

Solution Type: Infrastructure, DevOps & Systems

Cloud Link

#22
Booth

AM Session

Project Description: Modern users often leverage multiple free cloud storage services (e.g., Google Drive, Dropbox, OneDrive) to maximize storage capacity. However, managing files across disparate platforms is cumbersome. This project proposes a unified platform to aggregate, organize, and secure access to free cloud storage services under a single interface, addressing fragmentation in the current ecosystem.

Team: Priyansh, Nandini, Gurnoor, Sahil, Naomi, Naman

Solution Type: Digital Platforms & Applications

Online Preorder and Inventory System

#20
Booth

AM Session

Project Description: You know how frustrating it is when you go to your favorite bakery and they're out of what you want? We're fixing that. We're building a user-friendly web app for Loriz Pilipino Bakery that lets customers pre-order their favorite baked goods, pick them up fresh, and schedule a pickup right when they want. It also provides the store with an upgraded inventory system and helps the bakers know exactly what to make and when—so nothing goes to waste, and no one leaves disappointed. It's simple, smart, and it makes the whole experience way better for everyone.

Team: Eliah Rebong, Hassan Khalil, Jasmaan Sekhon, Jean Pierre Louis Bacud, Justin Gracilla, and Ralph Julian Paul Pagulayan

Solution Type: Digital Platforms & Applications

Program: Interdisciplinary Programs

Description: Students from different programs collaborate to solve a real-world challenge using combined skills.

Academic Team



Shon Noda
Academic Chair
Film & Video Production,
Interactive Design and RTBN



Candace Van Apeldoorn
Capstone Project Instructor



Tamanna Malik
Capstone Project Instructor



Subrata Biswas
Academic Chair
Information Technologies
Services Program - 1st Year



Ralph Gonzales
Capstone Project Instructor



Ramin Nassiri
Capstone Project Instructor



Ali Moussa
Academic Chair
Software Development
2nd Year



Roderick MacIntosh
Academic Chair
Information Technologies Services
2nd Year

Capstone Projects

24

Capstones
Projects

6

Solution
Types

111

Students
Involved

Digital Platforms & Applications

End-user web/mobile apps or multi-feature platforms for content, productivity, or general services.

- **Water Pulse**
- **Lens & Logic**
- **PAWer**
- **Floatin: Social App**
- **SafePoint**

E-Commerce & Commercial Services

Marketplaces or business portals enabling online sales, bookings, and customer self-service.

- **Grab and Go Suppliers**
- **Spacehive**
- **Gelli**
- **Havenly**
- **Just Chores**

Social Impact & Community

Solutions advancing sustainability, accessibility, civic engagement, or overall community well-being.

- **Oscar Bins**
- **AccessAble**
- **Common Grounds**
- **Neighborly**

Infrastructure, DevOps & Systems

Projects that build or automate core IT infrastructure, cloud environments, networking, or system-admin workflows.

- **Wi-Pi**
- **VM Lab Environment**
- **Tartigrade Ltd.**
- **T.J.J: Internet Cafe**
- **Optidesk VDI**

Education & Assistive Tools

Learning tech, skill-building aids, and apps supporting teaching, study, or personal development.

- **Skillby**
- **BiteClub**
- **NUX (North up Experience)**
- **SEREIN**

Creative & Entertainment

Games, artistic experiences, or cultural content.

- **Dark Side of the Sun**

Program: Interdisciplinary Programs

Schedule and Booths (1 of 2)

AM/ PM	Booth	Project Name	Short Description
PM	38	Wi-Pi	Portable device shares Wi-Fi via QR/NFC, eliminating passwords, improving customer experience.
PM	16	Water Pulse	App displays river, reservoir, and air-quality forecasts to plan outdoor activities.
PM	39	VM Lab Environment	Affordable Windows Server network provides centralized services for learning or small production use.
PM	17	Lens & Logic	Portfolio and booking platform helps emerging artists showcase work and attract clients.
PM	44	Oscar Bins	Gamified campus system simplifies waste sorting and motivates sustainable participation.
AM	23	Grab and Go Suppliers	Marketplace lets restaurants compare and bulk-buy packaging with transparent pricing and reviews.
PM	40	Tartigrade Ltd.	Stores security logs in database, enabling investigations and strengthening network defenses.
AM	24	Spacehive	Platform connects users with idle local venues for flexible hourly bookings.
PM	18	PAWer	Streamlined listings reunite lost pets and simplify adoptions, reducing shelter workload.
PM	45	AccessAble	Crowd-sourced app rates accessibility, uses AI summaries, empowering confident navigation.
AM	25	Gelli	E-commerce brand selling custom gel nail products.
AM	30	Skillby	Interactive poster encourages habit-building and skill improvement, combating procrastination.
AM	31	BiteClub	Cooking assistant tool guides users preparing favourite meals at home.

Program: Interdisciplinary Programs

Schedule and Booths (2 of 2)

AM/ PM	Booth	Project Name	Short Description
AM	32	NUX (North up Experience)	Podcast-based product assists new international students with orientation support.
AM	37	Dark Side of the Sun	Gothic RPG explores consequences of emotional versus logical decisions.
AM	26	Havenly	Website lists renovated properties for buyers to browse and purchase.
PM	41	T.J.J: Internet Cafe	VM network supports internet-café reservations, subscriptions, and customer accounts.
PM	19	Floatin: Social App.	Local social app connects individuals and groups for spontaneous meetups.
PM	46	Common grounds	Mobile coffee shop hosts pop-up gatherings, fostering community connections citywide.
PM	20	SafePoint	UX-focused tool standardizes incident reports, using AI to summarize documents.
PM	47	Neighborly	Platform matches donated goods with recipients, facilitating community sharing and reducing waste.
AM	33	SEREIN	Accessible mental-health app offers AI-guided exercises, wellness tools, and therapist communication.
AM	27	Just Chores	Mobile marketplace connects customers with service providers for home and office tasks.
PM	42	Optidesk VDI	Lightweight virtual desktop delivers secure company access from any browser-enabled device.

Program: Interdisciplinary Programs

Wi-Fi

#38
Booth

Session **PM**

Project Description: We want to produce a small portable machine capable of sharing Wi-Fi passwords with either a QR code or NFC tap technology. It removes the need to share passwords.

Team: Jack Antil, Jasleen Kaur, Matthew Hill, and Matthew Smithson

Solution Type: Infrastructure, DevOps & Systems

Water Pulse

#16
Booth

Session **PM**

Project Description: Water Pulse is an app designed to show people information about our rivers and reservoirs and air quality which helps users predict and plan their visits or work. It shows current and predicted river levels, water temperature, and air quality in addition to the weather.

Team: Iyiola Folorunso, Justin Jabrica, Muhammad Saraj-U-Ddin, and Oluwatobiloba Adeniyi

Solution Type: Digital Platforms & Applications

VM Lab Environment

#39
Booth

Session **PM**

Project Description: We are building a comprehensive, cost-effective Windows Server 2022-based enterprise network environment. The solution includes Active Directory with DNS, DHCP, Group Policy, AD Rights Management Services (AD RMS), mail services, and web services. This

Team: (Frank) Gang Liu, Hao Yang, Matthew Su, and Pal Patel

solution Type: Infrastructure, DevOps & Systems

Program: Interdisciplinary Programs

Lens & Logic

#17
Booth

Session **PM**

Project Description: This project provides emerging artists with a powerful online platform to enhance their visibility and streamline client acquisition. Recognizing the impact of visual content, our solution offers an intuitive portfolio viewing system and integrated calendar booking. This empowers artists to effortlessly showcase their work, attract clients, and simplify the entire discovery and booking process, ultimately helping them grow their businesses.

Team: Aiana Sevilla, Xiang Wang, Amber Campbell, Li Jiayi, Sile Genoso, and Danyal Arshad

Solution Type: Digital Platforms & Applications

Oscar Bins

#44
Booth

Session **PM**

Project Description: Our solution, while utilizing Oscar Sort's advanced technology, is fundamentally focused on driving sustainable change through a people-centric approach to empower people and create a scalable, impactful solution. We are not just deploying a system; we are implementing a comprehensive strategy that addresses the behavioral and design challenges of waste sorting by utilizing technology as a powerful tool.

Team: Rebeca Abadie, Alyanna Barrera, Angie Go, Woo Cheol Jeong, Angelo Mangahas, and Vernice Suson

Solution Type: Social Impact & Community

Grab and Go Suppliers

#23
Booth

AM Session

Project Description: This project addresses a common pain point in the food service industry: the inefficiency of sourcing disposable packaging from multiple vendors. The student team developed a centralized online platform tailored to restaurant owners, allowing them to easily compare, review, and bulk-purchase packaging products. The platform emphasizes transparent pricing, user reviews, and affordable delivery. Streamlining procurement in the same way kitchens streamline service.

Team: Onkar Singh, Jashandeep Kaur, Jasdeep Dhillon, Sourav Bhardwaj, Jazib Rao, and Kaljit Kaur

Solution Type: E-Commerce & Commercial Services

Program: Interdisciplinary Programs

Tartigrade Ltd.

#40
Booth

Session **PM**

Project Description: Tartigrade's current security logs aren't permanently stored, hindering investigations and leaving the network vulnerable. Our project will modify security programs to save all logs to a database, enabling security and management teams to identify and fix network security gaps. This will ultimately protect Tartigrade, its clients, and data from theft.

Team: Cheng Yi Lee, Henry He Zheng, John Perepelkin, Kiarash Hans, and Rafael Jdean Manalad

Solution Type: Infrastructure, DevOps & Systems

Spacehive

#24
Booth

AM Session

Project Description: Finding affordable, convenient spaces for casual gatherings is tough. Space Hive solves this by connecting users with underutilized local venues (like condo lounges, cafes, and community hubs) for hourly booking. Our platform lets users browse spaces or post their needs, making hosting easy, flexible, and accessible. It also helps property owners monetize idle spaces, creating a win-win marketplace that unlocks the potential of existing community areas.

Team: Jennifer Le, Crystal Park, Kevin Kipchumba, and Diego Arenas

Solution Type: E-Commerce & Commercial Services

PAWer

#18
Booth

Session **PM**

Project Description: Our platform streamlines listings, making it easy for adopters to find pets and families to reunite with lost animals quickly. We aim to reduce manual processes by over 50%, freeing up shelter staff, minimizing errors, and ensuring every pet gets noticed. PAWer cuts confusion, speeds up outcomes, and helps more animals find their way home.

Team: Molly Wong, Dianne Lee, Friar Peralta, Gurleen Kaur Singh, Minh Trang Dinh, and Tran Gia Linh Vu

Solution Type: Digital Platforms & Applications

Program: Interdisciplinary Programs

AccessAble

#45
Booth

Session **PM**

Project Description: AccessAble solves this by providing a user-driven platform where individuals can find and review locations based on real accessibility experiences. Our app allows users to filter by disability type, offers photo verification, and uses AI for concise summaries, ensuring reliable information. We're actively seeking early adopters, advocacy partners, and funding to expand our impact and empower everyone to navigate their communities with confidence.

Team: Jeremy Cole, James Smith, Confidence Uzu, Angelo Baloso, Thalles Souza, and Karl Alonzo

Solution Type: Social Impact & Community

Gelli

#25
Booth

AM Session

Project Description: An E-commerce brand selling custom made Gel Nails.

Team: Devin Campbell, Bella Franco, Fenris Murshud and Jadenn Pye-Nicholson

Solution Type: E-Commerce & Commercial Services

Skillby

#30
Booth

AM Session

Project Description: An interactive poster designed to help people foster and hone skill they would like to improve on instead of doing things such as procrastinating, scrolling on phone or laying in bed.

Team: Kausar, Birk Endruhn, Safoura Koungouonou, Ngoc Nguyen and Elliott Waehner

Solution Type: Education & Assistive Tools

Program: Interdisciplinary Programs

BiteClub

#31
Booth

AM Session

Project Description: A cooking assistant artifact to assist people to cook their favorite meals at home.

Team: Marshall Brown, Heather Fedorchuk, Myron Feliciano and Genesis Tumacder

Solution Type: Education & Assistive Tools

NUX (North up Experience)

#32
Booth

AM Session

Project Description: An assisting product to help new international students via a Podcast framework.

Team: Emely Alcantara, Juliana Gil Sanchez, Leesa Panchal and Marian Salazar

Solution Type: Education & Assistive Tools

Dark Side of the Sun

#37
Booth

AM Session

Project Description: A medieval western gothic experience made in RPG Maker that explores the theme of consequences of making purely emotional or logical decisions.

Team: Sahilpreet Singh Batth, Arya Emami and Jahswill Enebeli

Solution Type: Creative & Entertainment

Program: Interdisciplinary Programs

Havenly

#26
Booth

AM Session

Project Description: Our Website is a one that allows the owner/client to sell properties they already bought and renovated. these properties are listed on the website, allowing for buyers to browse and purchase.

Team: Abhijith Krishnan, Johram Querijero, Anosha Tahiri and Shawn Zabala Francia

Solution Type: E-Commerce & Commercial Services

T.J.J: Internet Cafe

#41
Booth

Session PM

Project Description: T.J.J is a VM network we're setting up. the goal of the network is to support a small to medium internet cafe busines. We'll host a site that allows customers to create an accounts make a reservation purchase or subscription. or view detail about the business.

Team: Justin Davis, Jackson Roberts and Thomas Thorpe

Solution Type: Infrastructure, DevOps & Systems

Floatin: Social App

#19
Booth

Session PM

Project Description: Floatin is a social app that allows individuals and friend groups to connect with others locally.

Team: Nico Agaton, Elvis Olasode, Angie Romero Ramirez, Hu Rui and Ellen Wang

Solution Type: Digital Platforms & Applications

Program: Interdisciplinary Programs

Common Grounds

#46
Booth

Session **PM**

Project Description: Mobile coffee shop that hosts pop-up events and acts as a place for gathering across the city. It aims to create a sense of community operating in food truck and booth setups with brand identity to reinforce for this value.

Team: Emma Byblow, Brendan Fung, Iolanda Verri Massaranduba and Mariam Yousif

Solution Type: Social Impact & Community

SafePoint

#20
Booth

Session **PM**

Project Description: The project focus is on designing and developing an incident reporting tool that prioritizes user experience. The goal is to simplify and standardize the process in which workers report incidents on the job site. We'll also utilize AI to summarize long documents.

Team: Febechi Ebunsi, Tasia Morris-Anderson, Megan Portello, Shubham Prashar, Amandeep Singh and Daniel Smith

Solution Type: Digital Platforms & Applications

Neighborly

#47
Booth

Session **PM**

Project Description: Neighborly is a community focused digital platform, that connects people and businesses wanting to donate items with individuals and families who need them. It provides donors with an efficient method to give away gently used goods for recipients. The App offers access to necessary items, and allows them to post requests for specific goods they need.

Team: Juan Sebastian Acuna Buritica, Nathalie de Araujo Mota Sales, Jaspreet Kaur, Ruben Macalma and Phontso Phontso

Solution Type: Social Impact & Community

Program: Interdisciplinary Programs

SEREIN

#33
Booth

AM Session

Project Description: SEREIN is a mental health App. that aims to be accessible to a wide audience. It's affordable and easy to use, and it features a selection of tools to support both users and therapists. Some of its capabilities include AI-guided exercises, wellness tools as well as video chats and direct messaging.

Team: Juan Camelo, Jeric De Guzman, Macarena Perez Cobo, Justine Sta Ana, Wanlong Wu and Habeeb Babatunde Abdulazeez

Solution Type: Education & Assistive Tools

Just Chores

#27
Booth

AM Session

Project Description: An online platform connecting customers with service providers for home, office and remote services. It's accessible through a mobile App. for booking, scheduling, secure payments and so on. The website provides general information and direct users to use the mobile App.

Team: Harmanpreet Kaur, Amandeep Singh, Japsanjam Singh and Yuvraj Bhalla

Solution Type: E-Commerce & Commercial Services

Optidesk VDI

#42
Booth

Session PM

Project Description: Optidesk VDI is a virtual desktop infrastructure that provides lightweight, cost effective access to company resources from any device, any time, and from anywhere. Think of it as a virtual work laptop, that you have full access to from any device (including your phone), as long as the device has a web browser.

Team: Pedro David, Saheed Lawal, Keiran McNeal and Juan Tovar

Solution Type: Infrastructure, DevOps & Systems

Program: Software Development

About the Program

A two-year, diploma that turns you into a versatile full-stack developer able to design, model, test and deploy secure web, mobile and desktop applications.

Academic Team



Ali Moussa

Academic Chair
Software Development Program



Andrew Stevenson

Academic Chair
Software Development
1st Year



Anwar Alabbas

Capstone Project Instructor



Mamta Verna

Capstone Project Instructor



Mehdi Shokrani

Capstone Project Instructor

Capstone Projects

35

Capstones
Projects

6

Solution
Types

146

Students
Involved

Business Management & Analytics

Solutions optimizing operations, logistics, HR, finance, or delivering data-driven insights.

- SHIFTLY
- Bhalaria Works
- C21 Realty Pro
- Sysco Route Planner
- GOATS
- Adventurers
- CloudInsights.AI

Health & Wellbeing

Apps focused on physical health, mental health, and legal health planning.

- SHIFA
- Care My Way
- Islamic Will Generator
- Pharmacy Order Tracking System (POTS)

Environmental Tech & Miscellaneous

Technology for environmental monitoring, green innovation, or diverse themes outside other categories.

- IoT Greenhouse Automation
- Dirt Road Directory
- TinyLog – DayCare App
- Purgencare
- New Homes in Calgary
- BUILDIT
- Eco Advisors

E-Commerce & Commercial Services

Marketplaces or business portals enabling online sales, bookings, and customer self-service.

- Kraken Security
- AI-Driven Fashion Concierge
- Homegrown Delicacies
- Vape Vault
- Patel Ceramics
- Urbane Eight
- The Detailing Lounge
- YYC Siding & Roofing
- ETSY Eradicators

Events & Tourism

Apps for event planning, tourism, and social experiences.

- Snow Score
- Evintli
- Virtual District App

Assistive & Educational Tools

Learning tech, skill-building aids, and apps supporting teaching, study, or personal development.

- GBR (Great Bear Rainforest)
- PEERCONNECT
- Care My Way
- Tour.js
- InkDrop Blog

Program: Software Development

Schedule and Booths (1 of 3)

AM/ PM	Booth	Project Name	Short Description
AM	2	Snow Score – Event management and scoring system	Web app manages snowboard events and scoring, simplifying competitions.
AM	34	IoT based Greenhouse Automation Management System	Automates watering and monitors real-time plant conditions for growers.
AM	28	Kraken Security	Portal offers product estimator, payments, and admin/customer interfaces for security solutions.
AM	38	Sysco Transportation Route Planner	Intelligent optimization creates efficient delivery routes for transportation services.
AM	29	AI-Driven Fashion Concierge	Responsive e-commerce site sells apparel with admin management and automated emails.
AM	35	Purgencare	Pixel-art RPG uncovers corrupt hospital mysteries through adventurous gameplay.
AM	3	Adventurers	React Native app manages nonprofit employees and forms, even offline.
AM	39	GBR (Great Bear Rain-forest)	Interactive site teaches special-needs students about Great Bear Rainforest, tracking progress.
AM	36	Dirt Road Directory	Website locates nearby farmers markets and vendors for users.
PM	31	TinyLog	Mobile app streamlines daycare operations, communication, and transparency for staff and parents.
PM	28	InkDrop Blog	Blogging platform lets users share and discover stories in welcoming environment.

Program: Software Development

Schedule and Booths (2 of 3)

AM/ PM	Booth	Project Name	Short Description
PM	21	Urbane Eight	Mobile Shopify app enhances customer engagement and plant-store operations.
AM	4	CloudInsights.AI	AI assistant converts AWS cost questions into clear visual dashboards.
PM	22	YYC Siding & Roofing	Platform connects homeowners to siding and roofing services, keeping them informed.
PM	23	The Detailing Lounge	Web platform manages bookings, customers, and schedules for car detailing.
PM	24	Homegrown Delicacies	Bakery webapp supports orders, inventory, accounts, helping home bakery grow.
PM	25	Vape Vault	Modern online vape shop provides secure, seamless shopping experience.
AM	40	Virtual District App	Mobile tool centralizes cultural events, tickets, maps, and discovery.
PM	34	Islamic Will Generator	Step-by-step platform creates Shariah-compliant wills, calculating inheritance automatically.
PM	29	Tour.js	App helps users discover and document Alberta historical sites with personalization.
PM	35	Care My Way	Platform guides seniors through care transitions with directories, booking, and payments.
PM	36	SHIFA	Mobile app supports mental-health recovery via updates, networking, emergency access, events.
AM	5	SHIFTLY	Workforce platform handles scheduling, geofenced clock-in/out, communication, analytics.
AM	6	GOATS	Platform automates food-truck event scheduling, staff assignments, and payroll tracking.

Program: Software Development

Schedule and Booths (3 of 3)

AM/ PM	Booth	Project Name	Short Description
PM	30	PEERCONNECT	Tutoring platform matches students for quick peer academic support.
AM	7	C21 Realty Pro	Mobile platform automates real-estate client management, deals, invoices, MLS integration.
PM	32	New Homes in Calgary	AI web platform personalizes real-estate searches with chatbot and live data.
PM	33	BUILDIT	Custom real-estate site lets agents independently manage listings and branding.
PM	37	Pharmacy Order Tracking System (POTS)	Web system centralizes pharmacy orders, providing real-time workflow visibility.
AM	41	Evintli	Centralized event planner connects organizers and vendors, automating scheduling and logistics.
PM	26	Patel Ceramics E-commerce Platform	Online shop enables ceramic stores to manage products, customization, orders, delivery.
PM	2	Bhalaria Workforce Management	Role-based web app delivers centralized HR control and real-time employee updates.
PM	48	Eco Advisors	Cloud-based platform automating sustainability reports, grant matching, and data intake from home energy inspection tools.
PM	27	ETSY Eradicators	MERN-based fraud detection system for marketplaces with real-time validation, admin dashboard, and seller reputation scoring.

Program: Software Development

Snow Score

#2
Booth

AM Session

Project Description: Convenient Event Management and Athletic Judging web application.

Team: Chris Findlay, Hammad Mahmood, Rodrigo Alves, Ryan Howie and Dylane Cunningham

Solution Type: Events & Tourism

IoT based Greenhouse Automation Management System

#34
Booth

AM Session

Project Description: Greenhouse management system that automates the watering of the plant, and display the real-time conditions of the plant such as temperature, soil, quality, humidity, and light.

Team: Jaspal Singh, Mit Makadia, Romanpreet Kaur, Ishamjot Kaur and Devain Sikka

Solution Type: Enviroment Tech & Miscellaneous

Kraken Security

#28
Booth

AM Session

Project Description: A comprehensive security system platform featuring a product estimator for device pricing, an integrated payment system for smooth transactions, and dedicated admin and customer interfaces for efficient management.

Team: Vinit Jangir, Tan Phu Nguyen and Surush Azaryun

Solution Type: E-commerce & Commercial Services

Program: Software Development

Sysco Transportation Route Planner

#38
Booth

AM Session

Project Description: Project focus on developing an intelligent route optimization system for transportation and delivery services. Create routes for trucks which deliver load from warehouse to different vendors.

Team: Gurjashanpreet Singh, Inderpal Singh and Shaganpreet Kaur

Solution Type: Business Management & Analytics

AI-Driven Fashion Concierge

#29
Booth

AM Session

Project Description: Build a responsive, scalable e-commerce site for Bam & Bosey to sell directly to customers online. Features an admin interface for product management and automated order email notifications.

Team: Stephen Chukwuma, Lucas Sawford, and Balkaran Jaswal

Solution Type: E-Commerce & Commercial Services

Purgencare

#35
Booth

AM Session

Project Description: A RPG pixel art game about venturing through a corrupt hospital to uncover its dastardly misdeeds.

Team: Maxim Lopez and Dakari Sow

Solution Type: Environment Tech & Miscellaneous

Program: Software Development

Bhalaria Works

#2
Booth

Session **PM**

Project Description: A role-based workforce management web application developed for Bhalaria Utensils Manufacturing Co., providing centralized HR control, real-time employee updates, and safety features.

Team: Nawal Mohamuud, Deep Bharatbhai Patel, Het Rajendra Patel and Sujal Ashwin Patel

Solution Type: Business Management & Analytics

Adventurers

#3
Booth

AM Session

Project Description: Employee and form management for non-profit in react

Team: Neeraj Pradeepkumar Bachwani and Harry Jung

Solution Type: Business Management & Analytics

GBR (Great Bear Rain-forest)

#39
Booth

AM Session

Project Description: A learning hub about the Great Bear Rain-forest for special needs kids. Tracks student learning for Teachers' needs.

Team: Jack Slempe, Chris Thodas and Ryan Van Popering

Solution Type: Education & Assistive Tools

Program: Software Development

Dirt Road Directory

#36
Booth

AM Session

Project Description: A website to help users locate near by farmers markets and vendors.

Team: Daniel Asefa, Mace Howald, Mark Leonardis and Vanshita Munday

Solution Type: Enviroment Tech & Miscellaneous

TinyLog

#31
Booth

Session PM

Project Description: DayCare Web App, A secure and user-friendly mobile application that supports daycare administrators, staff, and parents in streamlining daily operations, enhancing communication, and promoting transparency in childcare activities.

Team: Jinsun Yu, Jun Yun, Tony Kim, Jiyun Woo and Troy Escudro

Solution Type: Enviroment Tech & Miscellaneous

InkDrop Blog

#28
Booth

Session PM

Project Description: A webapp blogging platform that allows users to share, and discover stories in a welcoming online environment.

Team: Wenhan Liu, Yinan Fan and Maxim Oleshko

Solution Type: Education & Assisive Tools

Program: Software Development

Urbane Eight (Shopify Sales) Application

#21
Booth

Session **PM**

Project Description: The mobile app to improve customer engagement and streamline operational efficiency through a smooth and user-friendly native experience. It enables users to browse a variety of plants, product information, manage accounts, within a user-friendly platform.

Team: Shawn Graham, Gideon Simon and Mingma Gelbu Sherpa

Solution Type: E-Commerce & Commercial Services

CloudInsights.AI

#4
Booth

AM Session

Project Description: A friendly AI assistant that turns AWS cost questions into clear visual dashboards with charts.

Team: Noah Jobse, Jacob Jobse, Zumar Syed Bukhari and Daniel Leong

Solution Type: Business Management & Analytics

YYC Siding & Roofing

#22
Booth

Session **PM**

Project Description: A convenient easy-to-use online platform that helps Calgary homeowners get siding and roofing services while staying informed and connected throughout the process.

Team: Yadwinder Singh, Ruchi Panseriya, Vardan Jaswal, Vaibhav, Damanvir Singh and Jasmeet Kaur

Solution Type: E-Commerce & Commercial Services

Program: Software Development

The Detailing Lounge

#23
Booth

Session **PM**

Project Description: A Web platform designed to streamline online booking, customer management, and service scheduling for a premium car detailing business.

Team: Parmeet Singh, Arshdeep Singh, Harpreet Singh, Sneha and Rasanpreet Singh

Solution Type: E-commerce & Commercial Services

Homegrown Delicacies

#24
Booth

Session **PM**

Project Description: WebApp for Parneet's Home Bakery to streamline operations and support growth. Customers can browse products, place orders, and manage their accounts, while the owner can track sales, manage inventory, and update product availability.

Team: Avneet Kaur, Harpreet Kaur, Manjinder Singh, Mehakdeep Kaur and Armandeep Singh

Solution Type: E-commerce & Commercial Services

Vape Vault

#25
Booth

Session **PM**

Project Description: VapeVault is a sleek, secure, and user-friendly online vape shop built with modern web technologies. VapeVault offers a smooth and secure shopping experience from product discovery through checkout.

Team: Eknoor Singh Kohli, Pranav Bhalla, Harkaran Singh and Kamalpreet Singh

Solution Type: E-commerce & Commercial Services

Program: Software Development

Virtual District App

#40
Booth

AM Session

Project Description: A mobile application that centralizes cultural tourism by offering live local event listings, ticket booking, interactive maps, and personalized discovery tools.

Team: Sahilpreet Singh, Abeel Ahmed Mohiuddin Mohammed, Asma Akbar and Parth Nilesh Kumar

Solution Type: Events & Tourism

Islamic Will Generator

#34
Booth

Session PM

Project Description: A digital platform that guides users step-by-step to create Shariah-compliant wills, automatically calculating inheritance shares and generating legally formatted PDF documents tailored to each user's country.

Team: Aleena Ali Khan, George Conde, Stefan Garcia and Zarish Bilal

Solution Type: Health & Wellbeing

Tour.js

#29
Booth

Session PM

Project Description: A mobile-first application that helps users discover and document historical tourist destinations in Alberta. It includes features like business registration, location discovery, and event creation with a personalized user experience.

Team: Harjap Singh, Ekamjot Singh, Manminder Singh, Sukhman Singh and Roman Sorokin

Solution Type: Education & Assistive Tools

Program: Software Development

Care My Way

#35
Booth

Session **PM**

Project Description: A healthcare literacy platform designed to help older adults and families navigate continuing care transitions by providing personalized guidance, healthcare provider directories, and direct booking and payment options.

Team: Nida Aamir, Bennett Feraer, Nathan (Chenglin) Gui, Ashleen Sidhu, Ruskin Tanoy and Natalie Yeung

Solution Type: Assistive & Educational Tools

SHIFA

#36
Booth

Session **PM**

Project Description: A mobile-first app supporting mental health and addiction recovery through real-time updates, volunteer networking, emergency support access, and event registration features with a secure, scalable backend.

Team: Pushpreet Singh, Noah Gallasic, Asfandiyar Khan, Hemang Sharma and Dhruv Pabbi

Solution Type: Health & Wellbeing

SHIFTLY

#5
Booth

AM Session

Project Description: A centralized workforce management platform for businesses to handle employee authentication, scheduling, geofenced clock-in/out, and communication, with real-time notifications and analytics.

Team: Gurnoor Singh, Samarth Bhasin, Mohammed Moin Mohammed Shakir Shaikh and Princedeeep Singh

Solution Type: Business Management & Analytics

Program: Software Development

GOATS

#6
Booth

AM Session

Project Description: A centralized scheduling and time-tracking platform built for food truck businesses to automate event coordination, staff assignments, and payroll processing, replacing manual paper-based workflows.

Team: Tehjib Singh, Rudra Pratap, Yoohyun Kim, Chester Laraya and Leona Motyer

Solution Type: Business Management & Analytics

PEERCONNECT

#30
Booth

Session PM

Project Description: A mobile-first tutoring platform that connects students with other students based on expertise, offering quick, flexible, and peer-driven academic support through short or long-term help.

Team: Karie Israeli, Lily Hu and Christin Racicot

Solution Type: Education & Assistive Tools

C21 Realty Pro

#7
Booth

AM Session

Project Description: A mobile-first platform for Century 21 Bravo Realty to automate client management, deal tracking, invoicing, and MLS listing integration, replacing outdated paper-based systems.

Team: Phattharaporn I. (Pear), Harjot Kuar, Gyanit Singh Vasdev, Pranay Hasmukh Bhalsod, Jaskaran Singh and Armaandip Singh Maan

Solution Type: Business Management & Analytics

Program: Software Development

New Homes in Calgary

#32
Booth

Session **PM**

Project Description: An AI-driven web platform to simplify and personalize real estate searches for home buyers in Calgary. Features include chatbot assistance, intuitive design, and real-time updates powered by data scraping and automation.

Team: Nhat Minh Phan, Sukhman Singh, Santiago Cardenas, Thu Doung Nguyen and Jasjot Singh

Solution Type: Enviroment Tech & Miscellaneous

BUILDIT

#33
Booth

Session **PM**

Project Description: A personalized real estate platform that allows agents to independently manage property listings, user engagement, and business branding, while helping buyers and sellers search and filter properties effectively.

Team: Fazan Khan, Jeel Patel, Yash Kakadiya, Udhav Bhagat and Ting Chien

Solution Type: Enviroment Tech & Miscellaneous

Pharmacy Order Tracking System (POTS)

#37
Booth

Session **PM**

Project Description: A web-based system designed to optimize pharmacy and compounding center workflows by centralizing order tracking, enabling real-time updates, and improving operational transparency.

Team: Alessandra Claur, Mitzi Vera Escartin, Lulubelle Fontelo, Gabriel Ira Siwa and Bryan Benedict Teruel

Solution Type: Health & Wellbeing

Program: Software Development

Evintli

#41
Booth

AM Session

Project Description: A centralized event management platform designed to simplify event planning by connecting organizers with vendors, automating scheduling, and streamlining logistics from planning to execution.

Team: Kourosh, Joshua Chavez, Kristopher Schneider, Karmanveer Singh and Cody Tran

Solution Type: Events & Tourism

Patel Ceramics

#26
Booth

Session PM

Project Description: An online platform that supports small ceramic shops by enabling digital product management, customer browsing, customization, and order handling with inventory oversight and delivery tracking.

Team: Karmkumar Patel, Smit Patel, Harshil Rathod, Omkumar Patel and Rudra Patel

Solution Type: E-commerce & Commercial Services

Eco Advisors

#48
Booth

Session PM

Project Description: A centralized sustainability and energy-efficiency platform that streamlines data intake from home inspection tools (e.g., HOT2000, H2K), automates grant matching, and generates XML-based reports. It leverages cloud-native deployment and modular microservices to enhance performance and scalability.

Team: Maria Xavier, Raymond Gawalko, Christopher Reid, and Duc Huy Lam

Solution Type: Environmental Tech & Miscellaneous

Program: Software Development

ETSY Eradicators

#27
Booth

AM Session

Project Description: A fraud detection system for online marketplaces like Etsy, built using the MERN stack. It includes a dynamic admin dashboard, real-time product listing validation, and seller reputation scoring, aiming to reduce fraudulent activity and protect buyers.

Team: Nicholas Simard, Joshua Louie, Khush-Bakht Khan, and Davonte Mclean

Solution Type: E-Commerce & Commercial Services

Program: Film and Video Production

About the Program

A two-year, diploma immersing you in every stage of production—from scriptwriting and directing to cinematography, editing and sound design.

Academic Team



Shon Noda
Academic Chair
Film & Video Production,
Interactive Design and RTBN



Lincoln Constable
Capstone Project Instructor



Matthew Watterworth
Capstone Project Instructor

Capstone Projects

28

Capstones
Projects

4

Categories

103

Students
Involved



Promotional & Commercial Videos

Projects focused on promoting brands, services, or products.

- Furever
- JAKE Production
- RJRA Productions
- Team Go Bots
- The A Team
- Broke Budget Productions
- Capturing Beatury
- Istudiyo ADG
- Mort Media
- Rogue Squadron
- Skinny Legends
- Express Mart
- AutoVerify Voices
- Belmont Medical Centre
- Legion
- Shredz Promo Material



Music & Entertainment Content

Projects centered around music videos, comedy, or creative storytelling.

- Elite Productions
- Pixel Punk Productions
- Flat Blues
- Last Cigarette
- Dead Dawg Productions



Documentaries & Testimonials

Projects that tell real stories, highlight experiences, or showcase history.

- Truckyeah! Productions
- Alcove Recovery Home
- MFIC 44yrs Documentary
- CIA Racing + Profile Videos



Event & Lifestyle Media

Projects related to events, sports, or lifestyle branding.

- Skate Bats/Jumpstart
- Today's Radio

Program: Film and Video Production

Schedule - Morning Session

Time	Team - Project	Short Description	Instructor
9:30–9:40 AM	-	<i>Warmup & tech setup</i>	-
9:40–9:55 AM	Alcove Recovery – Documentary	A documentary about Alcove Recovery Center in Calgary AB.	Lincoln Constable
9:55–10:10 AM	Hythe Motor Speedway – Editing services	Our students worked to edit a full stock car race that took place in Grande Prairie AB.	Lincoln Constable
10:10–10:25 AM	Skatebats – Promotional Material/Info	Promotional material for the Skatebats/Jumpstart program for visually impaired children wanting to learn skateboarding.	Lincoln Constable
10:25–10:40 AM	Shredz – Social Media Content	Promotional material for local skate shop Shredz in Calgary AB.	Lincoln Constable
10:40–10:55 AM	Autoverify – Testimonial	Customer testimonials for the website Autoverify, a website that works with car dealerships.	Lincoln Constable
10:55 – 11:10 AM	Last Cigarette – Music Video	A music video for a local Calgary artist.	Lincoln Constable
11:10–11:25 AM	Broke Budget Productions - Missy's This That	Slick, playful promos for a Calgary cocktail bar with food, drinks, and personality.	Matt Watterworth
11:25–11:40 AM	Pixel Punk Productions - Seraphina's Music Journey	A music video for Seraphina, a young Calgary artist finding her sound and voice.	Matt Watterworth
11:40–11:55 AM	Istudiyo ADG - Heninger Toyota	A promotional documentary highlighting the people and values behind one of Calgary's top dealerships.	Matt Watterworth
Lunch Break			

Program: Film and Video Production

Schedule - Afternoon Session

Time	Team - Project	Short Description	Instructor
1:05–1:20 PM	RJRA Productions - The Art of Pam Tzeng	A stunning look at contemporary dance and the creative mind behind it.	Matt Watterworth
1:20–1:35 PM	Skinny Legends - Prithvi Skinny Local	Music video for Calgary artist Skinny Local's track Godlike, inspired by the Kaliyuga to highlight marginalized culture and religion.	Matt Watterworth
1:35–1:50 PM	JAKE Productions - Platform Calgary Tour Video	A dynamic spotlight on the space that fuels Calgary's next big ideas.	Matt Watterworth
1:50–2:05 PM	[OPEN SLOT]	Presentation slot not in use	
2:05–2:20 PM	Mort Media - LRX	Brand videos for Lavoie Racing Motocross, combining action footage, interviews, and shop visuals to showcase the team and its community.	Matt Watterworth
2:20–2:35 PM	Team Go Bots - Foreignerz	Sizzle reel and social cuts from Sled Island and Kiki Ball events, featuring interviews with artists Eman and Priya.	Matt Watterworth
2:35–2:50 PM	Flat Blues - Groundswell – creature//conspire Music Video	Official music video for Edmonton metalcore band creature//conspire, plus BTS content, social reels, and promotional stills.	Matt Watterworth
2:50–3:05 PM	Capturing Beauty - Eternal Beauty	A creative exploration of beauty, artistry, and identity through the lens.	Matt Watterworth
3:05–3:20 PM	Furever - Second Chances: The Rescue Diaries	Heartwarming stories from the front lines of animal rescue and rehab.	Matt Watterworth
3:20–3:35 PM	Rogue Squadron - Sorrento Centre	Fundraising video, documentary short, and social media clips promoting BC's Sorrento Centre to increase awareness and donations.	Matt Watterworth

Not Presenting

Truckyeah! Productions – Ironhaul

A rugged, fast-cut promo spotlighting the people and machines that keep the heavy haul industry moving.

Dead Dawg Productions – Killbox Comedy Collective Collaboration

An irreverent mix of live comedy album, mini-specials, and sketches showcasing Calgary's up-and-coming comics.

Elite Productions – Brown Shortie

A music video packed with swagger, style, and pure Calgary flavour.

The A Team – Calgary Horror Con

A series of promo videos capturing the energy, scares, and spectacle of Calgary Horror Con.

Program: Film and Video Production

Alcove Recovery - Documentary

Project Description: A documentary about Alcove Recovery Center in Calgary AB.

Team: Folashade Osibo, Keighly Seefeldt-Reid, Princedeeep Singh, Jiaming Lu, Bernardo Silva, Vivek Tomar, Evan Bourbonnais, Aaron Ahenkorah, Aiden Bellerose, Darragh McManus, Tofunmi Ajayi, Raisa, and Keiran Stitt

Hythe Motor Speedway - Editing services

Project Description: Our students worked to edit a full stock car race that took place in Grande Prairie AB.

Team: Gabriel Milessis Braga, and Estevam Marques Maximo Batista

Skatebats - Promotional Material/Info

Project Description: Promotional material for the Skatebats/Jumpstart program for visually impaired children wanting to learn skateboarding.

Team: Haleigh Guenther, Anna Ungless, Jeeya Sidhu, and Joey Fredrickson

Shredz - Social Media Content

Project Description: Promotional material for local skate shop Shredz in Calgary AB.

Team: Evan Bourbonnais, and Pietro Antunes Rodrigues Mattiello

Autoverify - Testimonial

Project Description: Customer testimonials for the website Autoverify, a website that works with car dealerships.

Team: Keighly Seefeldt-Reid, Bernardo Silva, Pietro Antunes Rodrigues Mattiello, and Quincy Tran

Program: Film and Video Production

Last Cigarette - Music Video

Project Description: A music video for a local Calgary artist.

Team: Shuk Ching Wan, Chun Yin Kwan, and Heidi Chan

Broke Budget Productions - Missy's This That

Project Description: Slick, playful promos for a Calgary cocktail bar with food, drinks, and personality.

Team: Vincent Arceo, and Gabe Hernandez Guadarrama

Pixel Punk Productions - Seraphina's Music Journey

Project Description: An intimate portrait of a young artist chasing her sound and her dreams.

Team: Afnan Bahubeshi, Sara Gil Sanchez, Raisa Naireen Pathan, and Nishant Shalik Rathod

Istudiyo ADG - Heninger Toyota

Project Description: Fast-paced, eye-catching reels for one of Calgary's most recognized dealerships.

Team: Evan Bourbonnais, and Pietro Antunes Rodrigues Mattiello

RJRA Productions - The Art of Pam Tzeng

Project Description: A stunning look at contemporary dance and the creative mind behind it.

Team: Keighly Seefeldt-Reid, Bernardo Silva, Pietro Antunes Rodrigues Mattiello, and Quincy Tran

Program: Film and Video Production

Skinny Legends - Prithvi Skinny Local

Project Description: Music video for Calgary artist Skinny Local's song "Prithvi," blending performance and visuals inspired by Kaliyuga from Hinduism to highlight a marginalized culture and religion.

Team: Ed Mangahas, Emily Mugridge, and Gelsie Dagsa

JAKE Productions - Platform Calgary Tour Video

Project Description: A dynamic spotlight on the space that fuels Calgary's next big ideas.

Team: Jemmy Lu, Aaron Ahenkorah, Kieran Stitt, and Oluwatofunmi Ajayi

The A Team - Brown Shortie

Project Description: A music video packed with swagger, style, and pure Calgary flavour.

Team: Benzi Pichchadze, Anita Le, Daniel Seo, Casey Louise Tian, and Donnalyn Dionisio

Mort Media - LRX

Project Description: Brand videos for Lavoie Racing Motocross, combining action footage, interviews, and shop visuals to showcase the team and its community.

Team: Gabby Bishop, Johan Galvez Sanchez, Maalik Gowralli, and Gem Moon

Team Go Bots - Foreignerz

Project Description: Sizzle reel and social cuts from Sled Island and Kiki Ball events, featuring interviews with artists Eman and Priya.

Team: Julieann Burghardt, Chau Truong, and Nathan Holt

Program: Film and Video Production

Flat Blues - Groundswell – Creature/Conspire Music Video

Project Description: Official music video for Edmonton metalcore band creature//conspire, plus BTS content, social reels, and promotional stills.

Team: Ruby Mowery, Stephanie Ferrer, and Lawrence Malibiran

Capturing Beauty - Eternal Beauty

Project Description: A creative exploration of beauty, artistry, and identity through the lens.

Team: Bridget Carey, Madina Heydarova, and Chanel Hulston

Furever - Second Chances: The Rescue Diaries

Project Description: Heartwarming stories from the front lines of animal rescue and rehab.

Team: Shardul Vijaykumar Sharnagat, and Jiahui Sun

Rogue Squadron - Sorrento Centre

Project Description: Fundraising video, documentary short, and social media clips promoting BC's Sorrento Centre to increase awareness and donations.

Team: Jack Gibbs, Matt Millet, Marc Boily, and Daniil Stroinsky

Program: Data Analytics

About the Program

This post-diploma certificate teaches you to turn raw data into actionable insights via visualization, predictive analytics and modern data-science tools.

Academic Team



Kim Noble
Academic Chair
Data Analytics Program



Majid Amirfakhrian
Capstone Project Instructor

Capstone Projects

6

Capstones
Projects

1

Solution
Type

35

Students
Involved



Business Management & Analytics

Solutions optimizing operations, logistics, HR, finance, or delivering data-driven insights.

- **Profitability Unlocked: Transforming Superstore Inc.**
- **Inventory Quest: The Search for the Perfect Stock**
- **Supply-Chain Efficiency Optimization for FPS Flexible Packaging**
- **From Cold Beds to Warm Shelters**
- **Historical Property Assessment Analysis**

AM/ PM	Booth	Project Name	Short Description
PM	3	Inventory Quest	Data analysis reveals trends to improve stock turnover and revenue.
PM	4	Supply-Chain Efficiency Optimization for FPS Flexible Packaging	Predictive analytics enhance forecasting, inventory, and supply-chain efficiency.
PM	5	From Cold Beds to Warm Shelters	Analytics expose shelter capacity gaps and policy impacts across Alberta.
PM	6	Profitability Unlocked: Transforming Superstore Inc.	Sales insights boost margins, regional performance, and customer intelligence.
PM	7	Historical Property Assessment Analysis	Machine-learning forecasts property values, supporting fair taxation and planning.

Program: Data Analytics

Inventory Quest:

#3
Booth

Session

PM

Project Description: Analyzes five years of sales & inventory data for a Calgary retailer to uncover trends that will improve stock turnover and drive revenue growth.

Team: Mae Ison, Michelle Yet, and Chelsea White

Solution Type: Business Management & Analytics

Supply-Chain Efficiency Optimization for FPS Flexible Packaging

#4
Booth

Session

PM

Project Description: Uses statistical modelling and predictive analytics to enhance FPS Flexible Packaging's sales forecasting, inventory optimisation and supply-chain efficiency.

Team: Jasmyn Andrus, Frozan Rahmati, and Natalia Tapia

Solution Type: Business Management & Analytics

From Cold Beds to Warm Shelters

#5
Booth

Session

PM

Project Description: Investigates Alberta emergency-shelter occupancy (2013-2025) to highlight capacity gaps, seasonal patterns and policy impacts, supporting evidence-based decisions.

Team: Anthony Huang, John Eymard Estepa, Kulbir Singh, Lailoma Attahi

Solution Type: Business Management & Analytics

Program: Data Analytics

Profitability Unlocked: Transforming Superstore Inc.

#6
Booth

Session

PM

Project Description: Converts historical sales into actionable insights (clustering, market-basket analysis, regression) to boost margins, regional performance and customer intelligence.

Team: Uzoma Ezenwa, Ikechukwu Nmelu, and Fidelis Ikeji

Solution Type: Business Management & Analytics

Historical Property Assessment Analysis

#7
Booth

Session

PM

Project Description: Analyzes 2015-2025 Calgary property assessments with ML and dashboards to forecast values, support fair taxation and guide urban planning.

Team: Ashley Chuckry, Chaudhry Sultan, Merlin John, and Roshni Modi

Solution Type: Business Management & Analytics

Program: Information Systems Security

About the Program

This diploma equips you to safeguard data and systems through intensive study of networking, operating systems, and both defensive and offensive cybersecurity techniques.

Academic Team



Carla Marioni
Academic Chair
Cybersecurity Programs



Piyushi Singh
Capstone Project Instructor

Capstone Projects

17

Capstones
Projects

4

Solution
Types

35

Students
Involved

Cybersecurity & Forensics

Tools, simulations, and frameworks that protect systems, detect threats, or investigate digital evidence.

- **NETRA**
- **SecuireSuite**
- **PhantomC2**
- **Cloud Connect**
- **BlackMirrorSOC**
- **Malvex**
- **The Wall**
- **IoTelemetry**

Education & Assistive Tools

Projects designed to teach or simulate real-world cybersecurity scenarios.

- **SIEM Int**
- **QRishing**
- **Dual-Side Forensic Breakdown-Tracking Malware**
- **SoloBolo**
- **Identity Generated Cybersecurity Simulations (IGCS)**

Applied Artificial Intelligence

Projects that integrate AI to enhance processes or productivity.

- **Calista**
- **LLM**

Infrastructure, DevOps & Systems

Projects that build or automate core IT infrastructure, cloud environments, networking, or system-admin workflows.

- **Build TTG Central Logging App**
- **Secure Document Management System**

Program: Information Systems Security

Schedule and Booths (1 of 2)

AM/ PM	Booth	Project Name	Short Description
PM	9	Calista	AI-driven penetration testing streamlines vulnerability checks during assessments.
AM	10	NETRA	Tool ingests vulnerability data, producing concise remediation reports for clients.
AM	11	SecuireSuite	SaaS toolkit analyzes emails, files, websites to combat cyber threats proactively.
AM	12	PhantomC2	Open-source C2 framework offers modular, stealthy command control for red teams.
AM	13	SIEM Int	Simulation teaches full incident-response lifecycle with logging and remediation.
PM	8	Cloud Connect	Simple cloud alerts via SMS for teams lacking complex dashboards.
AM	15	LLM	Secure on-premise open-source LLM environment safeguards hedge-fund data.
AM	16	BlackMirrorSOC	Lightweight SOC platform provides real-time threat detection, log analysis, visualization.
AM	14	Secure Document Management System	Zero-trust, blockchain-backed system protects confidential documents throughout lifecycle.
AM	9	Malvex	Behavior-based antivirus detects new malware strains in real time.
PM	10	QRishing	Simulation demonstrates QR-based credential harvesting to improve security awareness.
PM	11	The Wall	Customizable firewall filters traffic, logs malicious packets, enhances network security.

Program: Information Systems Security

Schedule and Booths (2 of 2)

AM/ PM	Booth	Project Name	Short Description
PM	12	Dual-Side Forensic Breakdown-Tracking Malware	Project performs malware forensic analysis, generating comprehensive investigation report.
PM	13	IoTelemetry	Cloud-based IDS detects anomalies on IoT devices with lightweight tracking.
PM	14	SoloBolo	Educational toolkit demonstrates mousejack wireless exploit and mitigation strategies.
PM	15	Identity Generated Cybersecurity Simulations (IGCS)	Identity generator creates realistic data for safe cybersecurity simulations.
PM	43	Build TTG Central Logging App	User-friendly dashboard centralizes logs, enabling real-time visibility and troubleshooting.

Program: Information Systems Security

Calista

#9
Booth

Session **PM**

Project Description: AI is being incorporated into many different technologies today. “Vibe Coding” is a form of coding based on the use of AI to do most of the grunt work. This capstone aims to create a new form of penetration testing utilizing artificial intelligence. This solves the problem of having so many various tasks or vulnerabilities to check along with time constraints during a penetration test or capture the flag competition.

Team: Emma Gillispie

Solution Type: Applied Artificial Intelligence

NETRA

#10
Booth

AM Session

Project Description: Doing initial network vulnerability scans is relatively quick and easy but anyone in the industry can tell you that most of the work comes from analyzing the large amounts of data you collect and being able to sort through relevant information to be reported to your client with cost-effective relevant remediation recommendations. This tool aims to provide an all-in-one solution to this problem allowing large databases of data to be easily ingested and put into clear and concise client reports.

Team: Nathaniel Scherger and Luke Rackham

Solution Type: Cybersecurity & Forensics

Identity Generated Cybersecurity Simulations (IGCS)

#15
Booth

Session **PM**

Project Description: What if we could create realistic human information to simulate real pen testing and defense simulations? What if there was a way to teach cyber safety practically and safely while using data just like the real thing? Using the identity generator, we can create simulations that feel like the real thing, teaching anyone cybersecurity like never before.

Team: Grayden Stangness

Solution Type: Education & Assistive Tools

Program: Information Systems Security

SecureSuite

#11
Booth

AM Session

Project Description: Cybersecurity threats, such as phishing emails, malicious files, and vulnerable websites, pose significant risks to individuals, students, and organizations. Our SaaS platform, delivers a web-based cybersecurity toolkit with three specialized tools: An Email Analyzer to detect phishing and malicious content, a File Integrity Checker with visualization and collaboration features, and a Website Checker for evaluating website security and availability. Powered by the VirusTotal API, our tool provides an intuitive, accessible, and integrated solution to empower users to proactively combat cyber threats.

Team: Love Taule, Aireen Madella and Gian Austria

Solution Type: Cybersecurity & Forensics

Malvex

#9
Booth

AM Session

Project Description: Traditional antivirus software often relies on signature-based detection, which is ineffective against new, unknown, or obfuscated malware strains. With cyber threats evolving rapidly, there is a growing need for a smarter, adaptive solution. Our goal is to develop a system that leverages real-time behavioral analysis to detect malware—even when it hasn't been seen before. This solution can help address growing concerns around data breaches and zero-day attacks. We propose to build a next-generation antivirus solution with a built-in intelligent engine that identifies threats based on suspicious behavior. This engine will use model strained on malware datasets to predict, detect, and mitigate attacks dynamically.

Team: Gurleen Brar, Vivek Jhingan, Mehtab Kaur, Japneet Kaur, Abdul Osman

Solution Type: Applied Artificial Intelligence

Program: Information Systems Security

PhantomC2

#12 Booth

AM Session

Project Description: Organizations conducting penetration testing or red team exercises often lack access to affordable, secure, and customizable C2 (Command and Control) frameworks. Existing commercial tools like Cobalt Strike are costly and easily flagged by modern security tools, while free alternatives may be too complex or lack modularity for specific use cases. We are building a multi-phase, open-source C2 server that prioritizes modularity, stealth, and usability. Initially offering basic session control and machine details, it will evolve to support rich UI features, live terminals, automation routines, agent management, and secure payload deployment. It is tailored for ethical hacking demonstrations, red team operations, and cybersecurity training environments.

Team: Dhairya Shah and Krish Patel

Solution Type: Cybersecurity & Forensics

SIEM Int

#13 Booth

AM Session

Project Description: Corporate faces possible security problems and once exploited it could result in financial and reputational loss. Security has become a necessity to organizations today. Logging and incident response are required to keep systems safe. Our project simulates a SIEM solution that could solve logging, and we are going to simulate the whole incident response process from logging to attacking, and to remediating. This would allow companies and aspiring security professionals to be able to learn more about the incident response lifecycle.

Team: Aldrin Bergona, Judah Luciano and John Santos

Solution Type: Education & Assistive Tools

Program: Information Systems Security

BlackMirrorSOC

#16
Booth

AM Session

Project Description: Detect and mitigate threats before they cause real damage through lightweight and customizable Security Operations Center (SOC) solutions that offer real-time threat detection, log analysis, and threat visualization using open-source tools. This lightweight SOC platform built using open-source technologies like Wazuh, Kibana, and Suricata. It also includes a custom-built Python threat analysis tool for real-time detection, log enrichment, and data visualization, providing a flexible security monitoring framework.

Team: Shuai Jiang, Meiling Xu and Yu Wun Chen

Solution Type: Cybersecurity & Forensics

Secure Document Management System

#14
Booth

AM Session

Project Description: Imagine never having to worry about your most sensitive documents being compromised, even by your own IT team. Our Secure Document Management System uses military-grade encryption, blockchain verification, and zero-trust architecture to ensure that only the right people can access your confidential information while providing immutable proof of every action taken. We're revolutionizing document security for organizations that can't afford to take risks with their most valuable information. Our SDMS implements a comprehensive, multi-layered security approach that protects documents throughout their entire lifecycle while maintaining usability.

Team: Yuning Zhao, Adam Gereluk and Dipal Joshi

Solution Type: Infrastructure, DevOps & Systems

Cloud Connect

#8
Booth

Session PM

Project Description: Our solution is affordable and simplified, built for smaller teams or businesses that want easy-to-configure real-time alerts via SMS, without needing to navigate complex dashboards or enterprise-level contracts.

Team: Ciprian Soliven

Solution Type: Cybersecurity & Forensics

Program: Information Systems Security

QRishing

#10 Booth

Session **PM**

Project Description: The goal of my project is to create a fully functional QRishing attack simulation to demonstrate how QR codes can be used for credential harvesting and social engineering. I want to refine cybersecurity awareness techniques, and threat modeling. My objectives are to design and generate a conniving QR code, build a fake login webpage that mimic a legitimate service, set up a data collection, add fingerprinting for collecting device-related information.

Team: Guillermo Soto

Solution Type: Education & Assistive Tools

The Wall

#11 Booth

Session **PM**

Project Description: There is a need to dissect, filter, and allow/disallow packets and data to, from, and within a network and connected devices, and a means through which the packets are allowed or disallowed based on user configuration. The solution we present is a simple & custom firewall. This is customizable based on our desired filters for allowing or disallowing traffic through the network, as well as creating a warning log or message when packets deemed malicious are detected and blocked by the firewall.

Team: Boyang Chen and Matt Burke

Solution Type: Cybersecurity & Forensics

Dual-Side Forensic Breakdown-Tracking Malware

#12 Booth

Session **PM**

Project Description: Dual-Side Forensic Breakdown is a forensic-focused capstone where we investigate a real malware-infected system image using professional tools. The goal is to simulate a real-world digital forensic investigation-uncovering malware traces, user activity, and system compromise and deliver a complete, original forensic report that prepares us for real careers in cybersecurity and forensics.

Team: Gia Bao Nguyen

Solution Type: Education & Assistive Tools

Program: Information Systems Security

IoTelemetry

#13 Booth

Session **PM**

Project Description: As the IoT rapidly expands, the number of connected devices in homes, businesses, and public infrastructure continues to rise. Many of these devices are deployed with weak security measures, default credentials, and unpatched vulnerabilities making them attractive targets for attackers. Organizations need an IoT IDS to provide actionable alerts without the need for expensive appliances or enterprise software. IoTelemetry is a cloud-based intrusion detection system designed specifically for IoT devices. It uses lightweight behavior tracking to detect anomalies and alerts users through a centralized cloud interface. The system is easy to deploy, scalable, and minimizes impact on device performance.

Team: Jack Overland and Adam Leiman

Solution Type: Cybersecurity & Forensics

SoloBolo

#14 Booth

Session **PM**

Project Description: Many organizations use wireless keyboards and mice that can be exploited by mousejack attacks, which allow for the bypassing of standard security systems, due to the exploit being on hardware based rather than software. Most environments are unaware of this being possible and this capstone is to help spread awareness about this threat. It will demonstrate a real-world scenario of a mousejack attack and potential post exploit scenarios created through the Metasploit framework, further it will include mitigation strategies and work as an educational tool kit.

Team: Kenson Nham

Solution Type: Education & Assistive Tools

Program: Information Systems Security

Build TTG Central Logging App

#43
Booth

Session **PM**

Project Description: Many organizations lack a centralized, easy-to-use system to manage and monitor system logs. Non-technical users find it difficult to interpret log data, which leads to delays in detecting errors, security issues, and system failures. We are building a smart, accessible logging dashboard for businesses that want better control over their log data. It's like having a security control room, simplified for everyone. It makes troubleshooting faster and improves decision-making using real-time log visibility.

Team: Ajibola Anifowose and Ada Zhang

Solution Type: Infrastructure, DevOps & Systems

LLM

#15
Booth

AM Session

Project Description: Hedge funds increasingly seek to leverage LLMs for research, automation, and productivity. However, relying on cloud-based AI poses confidentiality risks. Open-source LLMs offer privacy, but deploying and securing them in-house is complex, requiring GPU integration, access control, and threat mitigation. This leads to delays, vulnerability to data leaks, and underutilized AI resources. Our Capstone will deploy and secure an open-source LLM (e.g. LLaMA) within the hedge fund's existing GPU infrastructure. Our solution includes secure installation, role-based access control, API protection, encrypted communication, and prompt-level data safeguards. The end result is a hardened, private LLM environment built specifically, for the hedge fund's internal needs.

Team: Ryan Ware and Jaun Cardenas

Solution Type: Applied Artificial Intelligence



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For questions about the Tech Capcon organization,
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