

VYAPAK BANSAL

ENGINEERING STUDENT

<https://www.linkedin.com/in/vyapak-bansal>

+1 (368) 599 3899
vyapak.bansal@ucalgary.ca
Calgary, AB

EDUCATION

University of Calgary - Calgary, AB

Expected April 2029

B.Sc. in Software Engineering

- Actively involved in 5+ university clubs, contributing to technical, academic, and leadership activities while maintaining a 3.8 GPA.
- Strong academic foundation in mathematics, physics, and programming as part of a first-year engineering curriculum.

St. Francis School - Ghaziabad, India

April 2022 - March 2025

High School Diploma

- Elected School Captain with 490/500 votes and led a 30+ member student panel to coordinate school services
- Held leadership roles as Head of the Coding Club, Debate Club, and Photography Club during high school, leading activities, events, and member coordination.
- Organized house teams and delegations for 25+ interschool competitions while participating in 25+ public speaking events
- Graduated with a 4.0 GPA in AP Physics, AP Mathematics, AP Chemistry, English and Physical Education

WORKING EXPERIENCE

Founder & CEO - Inovare

Calgary, AB

May 2025 - Present

- Founded and lead a youth innovation organization with more than 14 team members, currently hosting 3 events with 150+ participants.
- Engineered a scalable event database with Python and Vue.js, slashing registration processing time by 60% and improving participant tracking accuracy to 99.9%, reducing manual errors.
- Developed and maintained a newsletter system using Python scripts, automating content delivery to subscribers.
- Oversaw all finances and logistics, including offline delivery of materials to participants' homes.

Software Telemetry Member - Calgary Solar Car

Calgary, AB

September 2025 - Present

- Process and analyze high-frequency vehicle telemetry using JavaScript/TypeScript to improve data accuracy and insight generation.
- Build and maintain cross-subteam data pipelines and dashboards for real-time performance monitoring.
- Apply basic ML techniques to identify trends in sensor output and optimize system behavior.
- Develop backend and cloud skills through hands-on work with PostgreSQL, AWS, and Grafana for scalable data storage and visualization.

Volunteer - Tech Thursday

Calgary, AB

July 2025 - Present

- Welcomed speakers and attendees, ensuring smooth check-in and a professional first impression.
- Facilitated networking by proactively connecting attendees and helping conversations get started.
- Assisted speakers and participants during the event to keep sessions running smoothly.
- Supported event operations, including monitoring the venue and ensuring proper closure after the event concluded.

TECHNICAL PROJECTS**Personal Web Dashboard**

- Developed a Python + JavaScript dashboard featuring: a movie tracker logging films watched and hours spent, a calendar with events and notifications, and a fun activities section for daily engagement.
- Integrated Google Sheets and Google Calendar APIs for automated data management and event synchronization.
- Built both backend logic and front-end interactivity, improving personal organization and streamlining data tracking.

Inovare.io Website - (inovare-io.netlify.app)

- Built a responsive web platform showcasing global innovation events using HTML, CSS, JavaScript, and modern frontend tooling; deployed via Netlify's static hosting and CDN.
- Structured and presented 10+ sections/pages to clearly communicate event formats, participation details, and team information.
- Optimized user experience for cross-device compatibility with client-side scripting and layout best practices.
- Maintained version control with Git and iterated on design and content to support expanding community engagement.

Hand Detection Module

- Developed a real-time hand detection and gesture interaction system using Python, OpenCV, NumPy, and TensorFlow.
- Implemented hand and finger landmark detection using vector mathematics, enabling accurate tracking of multiple hands and individual fingers.
- Built interactive features including on-screen drawing, erasing, dynamic ink thickness control, and gesture-based input.
- Enabled creation of smooth animations and geometric shapes through continuous landmark tracking and frame-by-frame processing.

COMPETITIONS**Schulich School Of Engineering Makerspace Hackathon**

Won 1st Place among 100 other students, won by one of the highest scores in history of the event.

Geomatics Hackathon by Hexagon

Won People's Choice Award at the event.

Hack The Bias at University of Calgary

Won 3rd place among 200 people at the event, was able to make a real time sign language interpreter.

SKILLS

Languages: Python, JavaScript, TypeScript, HTML, CSS, SQL, PostgreSQL, C
Frameworks & Libraries: React, Next.js, Vue.js, Node.js, Tailwind CSS, Streamlit
Tools & Platforms: Git/GitHub, Netlify, Vercel, Jenkins, Firebase, Google Cloud APIs, Grafana, Firecrawl, NovAtel
Other Skills: Public Speaking, Pitching, Event Management, Networking, Microsoft Office, Trilingual