

# DEBOJEET DAM

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## EDUCATION

### University of Calgary

Sep. 2022 – May 2027

Bachelor of Science in Software Engineering, Minor in Entrepreneurship and Enterprise Development

Calgary, Alberta

- **Awards:** 2x (2022, 2023) - 1st Place Schulich Engineering Competition [Consulting Engineering], 2nd Place Western Engineering Competition [Consulting Engineering], Jason Lang Scholarship

## EXPERIENCE

### University of Calgary Students' Union

March 2024 – Present

Faculty Representative: Schulich School of Engineering

University of Calgary

- Elected in the 2024 Students' Union election with a total of **489** votes. Advocated for **4,200+** engineering student's and enhanced post-secondary education through collaboration with the faculty dean and other representatives.
- Successfully passed a referendum, achieving a significant **33%** reduced fee assessment for co-op and internship students compared to full-time student rates.
- Generated bylaws and policies regarding membership, elections, governance structure, meetings, membership fees, the acquisition, management and disposition of property, appointments to committees.

### Alberta Collegiate Robotics

July 2023 – February 2024

Project Manager

Calgary, Alberta

- Spearheaded the development of an innovative bionic arm, integrating 3D printed materials, EMG sensors, and Servos.
- Directed and supervised three specialized subteams: Software, Mechatronics, and Biological Research.
- Integrated hand movement tracking using **OpenCV** and **Python**, achieving a **90%** accuracy rate in gesture recognition. Programmed **Arduino** firmware to control servos based on gesture data.

### Schulich Ignite

January 2023 – April 2023

Programming Mentor

University of Calgary

- Mentored students, imparting foundational knowledge of frontend development through **HTML/CSS** and **JavaScript**.
- Guided students on basic networking principles and backend development fundamentals using **Node.js**

### Engineering Students' Society

September 2022 – April 2023

First Year Representative

University of Calgary

- Represented **1000+** students at the University of Calgary, demonstrating leadership in community engagement through the organization of various school-wide engineering events.
- Improved the first year curriculum through monthly feedback presented during meetings with academic coordinators.

## PROJECTS

### TinyThreads | 🐙 [github.com/TinyThreads](https://github.com/TinyThreads)

- Developed a children's clothing marketplace using **React.js** and **Material UI** for better UX and accessibility.
- Leveraged **AWS DynamoDB** for comprehensive data storage and **Cloudinary** for efficient image management.
- Integrated **ChatGPT4-Vision** for image analysis to identify clothing, boosting functionality sustainability.

### Dynamic Subway Information System | 🐙 [github.com/Dynamic-Subway-Information-System](https://github.com/Dynamic-Subway-Information-System)

- Developed a **Java** app mimicking Calgary's subway screens with real-time train data and ads using **Java Swing**.
- Managed ad content in a **MySQL** database, rotating every 10 seconds with text, media files, and timestamps.
- Retrieved weather data using **OpenWeatherMap API**, parsing HTML to display daily weather reports on screens.

### DriveAwake | 🐙 [github.com/DriveAwake](https://github.com/DriveAwake)

- Developed a driving assistance web application using **React.js**, tracking **EOG** signals to promote road safety.
- Implemented **C** and **Python** for machine learning models and Arduino integration, with **Flask** for backend operations.
- Used **Docker** to containerize the application for consistent deployment and streamlined management.

## TECHNICAL SKILLS

**Languages:** Python, C/C++, HTML/CSS, JavaScript, SQL, Java

**Technologies/Frameworks:** React, MySQL, NodeJS, DynamoDB, AWS, Docker, Git/GitHub, Next.JS 14, Java Swing