Debojeet Dam

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debodam.com

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

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

Projects

Dynamic Subway Information System | *github.com/Dynamic-Subway-Information-System* **July 2024**

- Developed a **Java** application modeled after Calgary's subway screens, integrating real-time train position data from a simulator, displaying advertisements and a map of train locations using **Java Swing** for UI design.
- Structured a **MySQL** database system to manage advertisement content, including text and media files, with automatic rotation every 10 seconds, while implementing weather data retrieval using **OpenWeatherMap API**, parsing HTML with regular expressions to display daily weather reports on the subway screen application.

TinyThreads | *github.com/TinyThreads* **November 2023**

- Developed a children's clothing swapping web app using **React.js** and **Material UI** for an enhanced user experience and accessibility, while implementing a Python/Flask backend.
- Leveraged **AWS DynamoDB** for the storage of data, **Cloudinary** for image management, and integrated OpenAI's **ChatGPT4-Vision** for image analysis to identify children's clothing in uploaded images, boosting platform functionality and promoting sustainability in fashion.

DriveAwake | *github.com/DriveAwake* **November 2023**

- Developed an advanced driving assistance application, employing **React.js** for frontend development, to track EOG signals and enhance user road safety.
- Implemented **C** and **Python** for the machine learning model and **Arduino** connection, seamlessly integrating **Flask** for backend functionality.

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 to advocate for student's interests and enhance post-secondary engineering education by collaborating directly with the faculty dean and other student representatives.
- 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, cost-effective **myoelectric prosthesis** for the arm, integrating **3D printed materials**, **EMG sensors**, and **ESP32 processors**.
- Developed a dynamic **MERN** app with a user-friendly **React** front-end, efficient **Node.js** and Express server-side logic, and robust **MongoDB** database, featuring intuitive controls and customization.

Schulich Ignite **January 2023 – April 2023**

Programming Mentor *University of Calgary*

- Proactively mentored aspiring students, imparting foundational knowledge of frontend web development, cultivating expertise in key technologies including **JavaScript**, **HTML/CSS**, and **Node.js.**

Engineering Students' Society **September 2022 – April 2023**

First Year Representative *University of Calgary*

- As a representative for a cohort of **100+** students at the University of Calgary, demonstrated leadership in community engagement, volunteered for campus events, and contributed significantly to improving the first-year engineering curriculum through consistent engagement in meetings with academic coordinators.