

Anfaal Mahbub

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Education

Bachelor of Science in Software Engineering
University of Calgary, Schulich School of Engineering

Expected Graduation: May 2026

Skills

Proficiencies: Java, Python, C/C++, SQL, JavaScript, SCADA, HMI

Software: Power Apps, Docker, Ansible, MySQL, React, Node.js, Git/GitHub, AWS, Junit, Selenium, JIRA

Experience

Computer Engineer Intern | SCADA, HMI, ICS

Sept 2024 – Sept 2025

ATCO Pipelines – SCADA & Cybersecurity

Edmonton, Alberta

- Modernized Human Machine Interface (HMI) displays and updated ICS database entries using in house software
- Updated and transformed 1550 HMI displays using proprietary software tools (sourced by AVEVA) based on Change Management Requirements
- Supported Change Management processes through clear documentation and regular communication with stakeholders
- Constructed and maintained operators' consoles, ensuring hardware and system integration

Back-end Software Engineer | Typescript, Docker, Git

Oct 2023 – Apr 2024

Tech Start UCalgary – ReThread

Calgary, Alberta

- Designed back-end architectures for a fashion education platform, supporting a 20% increase in users
- Improved data presentation via analytical processing, advancing user engagement by 10%
- Partnered with 3 teams to deploy trend analysing algorithms, boosting user retention by 15%

Leadership Experience

Project Manager & Lead Software Engineer | JavaScript, MySQL, Node.js

Jan 2024 - Apr 2024

StudySync Platform

Calgary, Alberta

- Directed 5 developers to create an educational platform, directing the project from inception to rollout
- Optimized backend systems using Node.js and Express.js, streamlining server response times by 25%
- Mentored 2 junior developers and liaised with stakeholders to align project objectives with user needs

Projects

Money Moves - Empowering Intl. Students | React, Node.js, Design Patterns

Feb 2024 - Feb 2024

- Developed a financial advice tool for international students, employing design patterns for scalability
- Spearheaded backend development, ensuring data handling capabilities with up to 20% variability
- Controlled the integration of backend and frontend components for optimal user experience

Airline Reservation System | Java, MySQL, Design Patterns, GUI

Nov 2023 - Dec 2023

- Constructed a scalable Flight Reservation System, lowering booking processing times by 35%
- Utilized Java for system development and MySQL for high-volume transaction handling

Noisy Boy - Mute the World | Python, SketchUp, Git

Nov 2023 - Nov 2023

- Innovated a noise cancellation product, incorporating precision frequency suppression via Python
- Modelled the hardware design to mitigate feedback loops by 10%
- Upheld sustainable manufacturing practices, minimalizing environmental impact by 15%

Veterinarian Schedule Builder | Java, MySQL, Git

Apr 2023 - Jun 2023

- Programmed a Java-based Scheduler automating 80% of routine tasks, markedly diminishing errors
- Enabled a collaborative environment using GitHub, shortening the development cycle by 10%

Notes App | React, JavaScript, HTML/CSS

Apr 2023 - Jun 2023

- Crafted a note-taking application, featuring real-time preview and autosave functionality
- Gathered and implemented user feedback, improving user satisfaction by 20%