Anfaal Mahbub

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Education

***Bachelor of Science in Software Engineering Expected Graduation: May 2026 (with Internship)***

University of Calgary**,** Schulich School of Engineering ***Duration Available:*** ***4 Months***

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%