Gibran Akmal

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EDUCATION

University of Calgary   **Graduating: AUG 2025**
Bachelor of Science, in Software Engineering   *Calgary, AB*

SKILLS

- **Technical:** C, C++, C#, JAVA, PYTHON, PHP, SQL, React.js, React Native, Embedded Systems, Unity, Git, Linux, Microsoft Office, Power Bi, MATLAB, OpenGL, Computer Vision, RTOS
- **Interpersonal:** Quick Learner, Independent, Innovative, Critical Thinker, Leader, Adaptability, Team player, Punctual

WORK EXPERIENCE

TC Energy   **May 2023 – Present** *(Calgary, AB)*
Operational Support – Field Data Intern
- Utilizing SQL and Python to build tools that predict likeliness of leaks based on certain pipeline wall thicknesses resulting in a 15% reduction in processing errors and a 20% enhancement in overall excavation effectiveness.
- Automated the data population procedure for validators by building scripts in VB, Power Automate, and Power Query, reducing manual effort and human error by 25% as well as decreasing the number of technicians needed in the field
- Applied comprehensive understanding of pipe integrity and remediation techniques to QA/QC integrity field reports, resulting in a significant improvement in the accuracy of identified pipeline anomalies.

Code Ninjas   **Dec 2022 – May 2023** *(Calgary, AB)*
Coding Instructor
- Taught a curriculum to take students from a beginner level (computer science fundamentals) to a comprehensive education in software development in languages such as JavaScript and C# over a series of classes, individual assessments, and collaborative challenges.
- Assisted students with the development of their own coding projects, resulting in the successful completion of over 30 student projects.
- Delivered instruction to groups of up to 20 students, utilizing interactive and hands-on teaching methods to increase engagement.
- Additionally, created and delivered workshops in advanced concepts such as game development, web development, and 3D modelling.

Schulich Space Rover Team   **Jun 2021 – June 2022** *(Calgary, AB)*
Software Sub Team Member
- Created an intuitive base station interface, utilizing React.js, which enabled the pilot to monitor and control the rover's movements as well as observe real time video output from the onboard cameras.
- Implemented algorithms for autonomous navigation utilizing ROS and C++ for waypoint mapping, resulting in a 15% increase in efficiency of the rover's movements while no pilot is present.
- Integrated and synchronized sensor input by utilizing wrapper objects to package the raw data so it can be translated into actionable information such as the rover's coordinates and relative position in space, resulting in a significant reduction in response time during testing
- Utilized computer vision techniques and MATLAB to develop and implement real-time object tracking functionality for the rover, enabling the system to identify and track objects in its field of view which improved obstacle detection by 40%.

VOLUNTEERING

Step Forward Volunteering Association   **Feb 2020 – Present** *(Calgary, AB)*
Member
- Assisted in the conception and execution of a charitable walkathon in support of the Students Against Domestic Abuse Association (SADAA) to raise awareness and funds for their cause of combating domestic abuse where we managed to raise about $20,000.
- Organized and executed food drives through donation stations setup across the university of Calgary to distribute sustenance for those in need.
- Contributed to the setup of the "Disney on Ice" community event by running the toy assembly station and serving children at the snack shops.

New English School   **Sep 2017 – Jun 2018** *(Kuwait City)*
Library assistant
- Facilitated patron access to literary resources by expertly assisting with the selection and check-out of materials.
- Systematically arranged and catalogued library collections to ensure optimal accessibility.
- Successfully planned and executed a host of library programs and events e.g. (book clubs, poster competitions, etc.)
- Mitigated technical challenges by providing proficient troubleshooting for library software and Office applications such as Excel.

AWARDS

Duke of Edinburgh Awards (Bronze and Silver)   **May 2017 – 2018** *(NES Kuwait)*