LIAM MAH

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Mobile: **403.477.8520**

A self-motivated software engineering student who is seeking to apply technical knowledge in order to create systems and processes that are reliable, efficient and user-friendly. Confident communicator and quick learner with the ability to work effectively on dynamic teams.

EDUCATION & CERTIFICATES

University of Calgary - Schulich School of Engineering   **September 2021 – Present**
BSc. Software Engineering   **GPA: 3.92**

John G. Diefenbaker High School   **September 2018 - June 2021**

- Completed Partial International Baccalaureate Student (IB) Program
  - IB Certificate in Mathematics SL IB; Physics SL IB
  - Achieved Honor Roll in Grade 10 (Full Honors Courses), 11, 12

LEAD (Leading, Empowering, Achieving a Difference) – City of Calgary Leadership Certificate
Innovation and Core Concepts of Engineering Entrepreneurship – Engineering Certificate

COMPUTER SKILLS

- Proficient in Python (with data analysis and supervised machine learning)
- Knowledgeable in C & C++
- Exposure to HTML, CSS, JavaScript, jQuery, Document Object Model (DOM), Bootstrap, Express.js, React, Vue and Node.js
- Knowledgeable with GitHub and Git workflow
- Knowledgeable with databases (ER/EER/Relational Models) and MySQL
- Familiar with Agile and Waterfall methodologies

ENGINEERING & COMPUTER EXPERIENCE

Project90 – REACH WorldWide Education
September 2022 – Present

- Assisting in the application development to improve water quality in developing countries

Schulich Unmanned Aerial Vehicles - ('SUAV' Competition Team)
Software and Electrical/Avionic Engineering Team Member
September 2022 - Present

- Developing a ground control station to display flight statistics and GPS location of the unmanned aerial vehicle in real-time using a Python backend and HTML, CSS, Javascript/Vue frontend
- Assisting in developing machine learning models to identify landing and airdrop zones
- Assisting in autonomous flight systems using Ardupilot and C++
- Responsible for a technical report summarizing the software and electrical systems on the aerial vehicle

Hackathon - Hack Your Learning 2022
March 26-27, 2022

- Created an application to teach fundamental software engineering/computer science principles to a young target audience; and
- Placed top five in the competition by developing a GUI using Tkinter and Python (Pygame)

WORK EXPERIENCE

McDonald's Restaurants
Part-time Crew Member
June 2021 – December 2022

- Provided front-line customer service by taking orders through the drive-through, collecting payments, and facilitating solutions to address customer complaints;
- Operated various tools and equipment to prepare food and drinks while maintaining cleanliness and ensuring quality control for all orders; and
- Multi-tasked to efficiently process and fulfill orders in a timely manner

Big Fun - Indoor Inflatable Park
Part-time Team Member
July 2019 - March 2020

- Worked in admissions to process entry payments and administer wristbands to families;
- Worked in concessions/dining to process food orders and fulfilled food orders in a timely manner;
- Enforced rules to ensure the safety of all guests in the inflatable playground area; and
- Completed WHMIS training, obtained Emergency First Aid certificate and food safety course

VOLUNTEER EXPERIENCE

John G. Diefenbaker High School
Math & Science Tutor
September 2020 – June 2021

- Tutored high school and IB level mathematics, chemistry and physics;
- Created a positive and productive learning environment both virtually and in-person; and
- Practiced technical communication by providing hints, examples, explanations, and solutions where appropriate with students

City of Calgary
Park n' Play Volunteer
July – August 2016, 2017, 2018

- Supported leaders in the free neighborhood drop-in program for ages 3-5 (Stay n' Play) and ages 6-12 (Park n' Play);
- Led activities and games and facilitated interaction with children;
- Encouraged healthy and active lifestyles with children;
- Developed leadership skills and communication techniques with children and team members; and
- Participated in training workshops - Day in the Life Training and LEAD Training certified

CIBC Run for the Cure
September 20, 2018

- Volunteered as course marshal to ensure run participants stayed on course to the finish line; and
- Placed strategically on the course to encourage and support runners

REFERENCES

Available upon request.