

FAIZ MOMIN

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SKILLS

- **Languages:** Python, Java, Javascript, C, C++, C#, HTML, CSS, SQL, Pygame
- Amazon Web Services (AWS)
- Windows and Linux
- Arduino, Robot Operating System, Unity
- Git, Version Control
- REST API, Client/Server Communication
- Strong understanding of data structures, algorithms, programming techniques.
- Excellent collaboration and time management skills.
- Able to master new skills quickly and adapt to new employment guidelines efficiently.

NOTABLE PROJECTS

[Tangible](#), UNIVERSAL TOUCHSCREEN APPARATUS

- Created a product which utilizes an **Arduino** along with an array of 6 **ultrasonic sensors** to bring **full touch screen functionality to any surface**, notably computer/laptop displays lacking a touch screen.
- Developed and debugged the main control system, signal processing, and signal noise reduction in **C++** to achieve accurate inputs from the user and allow a smooth and convenient experience for any user.
- Designed and implemented the **TangibleOS**, a set of **custom applications** that have been integrated into an intuitive home screen interface in **Python, Java** and **Unity**.

[Highway Surfer](#), ARCADE GAME

- Created a top-down endless racing video game using **Python** and **Pygame** in which the player must avoid crashing with incoming traffic for as long as possible.
- Designed a **fully functional menu screen** interface which included instructions and **player customization**.
- Implemented an up-to-date **leaderboard** using **Python File Handling** which keeps track of top performing players and their scores, even after the program is closed.

EXPERIENCE

2019-2020

[UW Robotics](#), SOFTWARE TEAM

Currently learning how to use **ROS** and **C++** to design and implement software to complete subtasks for the University of Waterloo's Mars Rover in preparation for the annual University Rover Challenge.

2018-2019

[President](#), DECA

Lead the executive team of Centennial CVI's DECA chapter to plan and conduct various events and sessions to prepare students for the regional, provincial and international competitions.

ACHIEVEMENTS

- **ECOO Programming Competition**, Ontario Finalist
- **Spartahacks Hackathon**, 1st Place
- **McMaster Software Challenge**, 3rd Place
- **Duke of Edinburgh Award**, Bronze and Silver

EDUCATION

2019 – 2024

[Bachelor of Software Engineering](#), UNIVERSITY OF WATERLOO