

YUSRA IRFAN

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EDUCATION

Western University, Bachelor of Engineering Science (Software Engineering) **Sept 2017 - April 2021**

- Dean's Honors List in 2018 and 2019

SKILLS

Languages **Proficient:** Java and C++ | **Competent:** Haskell, Golang, HTML/CSS, Python, C#, Arduino, Swift, and JavaScript | **Familiar:** C, Elm, LaTeX, MATLAB, React, JavaDB, and SQL

Tools Bootstrap, Git, AWS, SVN, SceneBuilder, Unit Testing, UML Diagrams, OnShape, & Terminal

Systems Windows, Mac OS, Linux (Ubuntu)

WORK EXPERIENCE

IBM and McMaster University, Software Developer (Co-op) **May 2019 - Aug 2019**

- Researched Code Generation for Cryptographic Kernels (Elliptic Curve), wrote algorithms in Haskell, and helped prepare these aspects of the Coconut tool for publication as an open-source project.
- Parallelized the scalar multiplication operation of ECC using Golang; *increased the efficiency by 40%*.

IBM And McMaster University, Research Assistant (Co-op) **July 2018 - Aug 2018**

- Proved the feasibility of a proposal to that a computer can calculate per second for the IBM Power 9 processor.
- Programmed the instructions using C and Haskell;
- *Published an award-winning paper* and a poster to CASCON 2018 (<https://bit.ly/2Zo14Bk>).

PROJECTS

FastDr. (AmpHacks), *HTML/CSS, Bootstrap, JavaScript, Python, Flask, Google APIs* **September 2019**

- Developed a responsive website and an algorithm to find the fastest time to be assessed by a doctor.
- *Won the Most Creative Hack* at AmpHacks 2019

YAP Shooter, *Unity, Visual Studio, C#, GitHub* **Jan 2019 - April 2019**

- Created a space shooter game using C# to handle movement, players, spawn manager, power-ups, etc.
- Implemented a main menu and sound effects using SFX to enhance gaming experience.
- Collaborated with 2 classmates in an Agile environment.

Drive Alert (SheHacks), *XCode, Swift, GitHub, ARKit, SceneKit* **March 2019**

- Programmed a mobile application (iOS) that tracks the driver's eyes while driving and gives an alert if they are closed for more than 3 seconds.
- Learned iOS development and demonstrated valuable skills in teamwork, leadership, and time management to complete the project in 12 hours.
- *Won Best Over-All Hack*; devpost.com/software/drivealert-80wnxk

iTravel, *IntelliJ, Scene builder, Java, JavaFX, SQL, UML Diagrams* **Sept 2018 - Dec 2018**

- Developed a GUI portal for a travel agency using object-oriented principles.
- Created a database to store flight schedules, flight information, and passenger details.

EXTRA-CURRICULAR

Software Team Member, Sunstang (Solar car Club)
Co-President, Western Karate Club

September 2019 – Present
May 2019 – Present