

YUSRA IRFAN

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EDUCATION

Bachelor of Engineering Science (Software Engineering), Western University **Sept 2017 - April 2022**

- Dean's Honor List 2018, 2019, & 2020

TECHNICAL SKILLS

Languages JavaScript, Java, C++, HTML/ CSS, Python, TypeScript, C#, Dart, SQL, Matlab, Haskell, Go, Swift, & C
Tools ReactJS, Redux, Angular, React Native, Flutter, NodeJS, AWS, Firebase, MongoDB, JavaDB, JUnit, Mockito, Pandas, NumPy, Figma, Bootstrap, Android SDKs, Git, JIRA, SVN, Unity, & UML

ENGINEERING EXPERIENCE

Software Developer Intern, Geotab **Sept 2020 – Present**

- Developing optimized UI components using Angular and backend software using C# on .Net Core
- Developing unit tests using XUnit. Working with Google BigQuery, SQL queries, and Postgres database

Summer Research Intern, Western University and London Hydro **May 2020 – Aug 2020**

- Awarded *Undergraduate Summer Research Internship Award* to predict EV battery usage by considering multiple variables using Machine Learning Algorithms in Python and MATLAB. Predicted the usage with **92% accuracy**.

Software Developer (Co-op), McMaster University and IBM Canada **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 Go; **increased the efficiency by 40%.**

Research Assistant (Co-op), McMaster University and IBM Canada **June 2018 – Aug 2018**

- Proved the feasibility of a proposal that a processor can do double the calculations per second for the IBM Power 9 processor; contributed to 4/10 mathematical functions.
- Programmed the instructions using C and Haskell; Developed automated unit tests using CUnit library
- **Published an award-winning paper** and a poster to CASCON 2018 (<https://bit.ly/2Zo14Bk>)

PROJECTS

Puffaway, Dart, Flutter, Firebase (Firestore & Cloud Functions), Mockito, Jira, UML **Jan 2020 – April 2020**

- Developed an Android & IOS app to assist individuals to quit vaping. *unit, component, and integrated testing*
- Demonstrated leadership by leading a team of 5 as a scrum master and developer using Scrum methodology
- Automated *unit, component, and integrated tests* using Flutter libraries and Mockito

Music Review Platform, Angular, Nodejs, Express, TypeScript, MongoDB, AWS, Restful API, Github **Dec 2019**

- Developed a DMCA compliant full-stack web-app with user and admin functionalities. Similar to IMDB
- Some functionalities: rating songs, submit and read reviews, soft/hard searching, and user verification
- Secured website using google authentication, JSON Web Tokens, and Argon2 encryption

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

- Developed a responsive website and an algorithm to find the fastest time to be assessed by a doctor
- **Won the Most Creative Hack;** <https://github.com/irfanyusra/fastdr>

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

- Programmed a face tracking IOS app that alerts drowsy drivers if their eyes are closed 2 secs with **99% accuracy**.
- Demonstrated fast learning and time management by learning IOS development and finishing the project in 12 hours with a team of 3 students. **Won Best Over-All Hack;** devpost.com/software/drivealert-80wnxk

EXTRACURRICULARS

Mentor, Women in Technology Society | Mentoring a team of 4 students for a year-long project **Sept 2020 – Present**

Outreach Volunteer, McMaster Start Coding | Teaching children functional programming **May 2018 – Present**

Co-President, Western Karate Club | In charge of finance, organizing events, and outreach **Sept 2019 – April 2020**