

YUSRA IRFAN

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EDUCATION

Bachelor of Engineering Science (Software Engineering), Western University Sept 2017 – Apr 2022
• *Dean's Honor List* 2018, 2019, & 2020; cGPA: 3.67

TECHNICAL SKILLS

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

ENGINEERING EXPERIENCE

Software Developer Intern, Geotab | *C#, .Net Core, Angular, SQL, GBQ, Python, Git, Agile* Sept 2020 – Aug 2021
• Developed and optimized UI components in Angular to implement new features (such as automation of return merchandise authorization) while **increasing test coverage by 100%**
• Designed components for backend using RESTful API principles, and **optimized scheduled queries by 30%**
• Served as a subject matter expert for the server monitoring project, which monitors the health and status of external and internal servers and streamlined releases, **resulting in a 5x increase in efficiency**
• Leveraged analytical skills to gather requirements and propose solutions to improve development inefficiencies
• Troubleshoot various high impact on-call bugs to maintain continuity in production

Summer Research Intern, Western University & London Hydro | *Python, MATLAB, Git* May 2020 – Aug 2020
• Awarded **Undergraduate Summer Research Internship Award** to predict EV battery usage with **92% accuracy** by considering multiple variables using Machine Learning Algorithms in *Python* and *MATLAB*

Software Developer (Co-op), McMaster University and IBM Canada | *Haskell, Go, SVN* 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 | *Haskell, C, SVN* 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. **Published an award-winning paper** to CASCON 2018

PROJECTS

Melodify (Same Home Different Hacks), *Angular, Nodejs, JavaScript Puppeteer library, Bootstrap* June 2020
• Developed a web app with a team of 4, that scrapes a specified website using Puppeteer and translates the words into musical notes using a JS Dynamic Audio Synth library
• Pitched the design and demo winning **Best Silly Hack**; <https://devpost.com/software/melodify-m8ab59>

Puffaway, *Dart, Flutter, Firebase (Firestore & Cloud Functions), Python, Flask, UML, Agile* Jan 2020 – Apr 2020
• Developed an Android & IOS app to assist individuals to quit vaping utilizing game theory
• Demonstrated leadership by **leading a team of 5** as a scrum master and developer using Scrum methodology
• Automated *unit, component, and integrated testing* was done through *Flutter* libraries and *Mockito*

Music Review Platform, *Angular, Nodejs, TypeScript, MongoDB, AWS, Restful API, Github* Dec 2019
• Developed a full-stack web app, where users can rate songs; submit and read reviews, similar to IMDb
• Some functionalities: soft/hard searching, external and link verification of users, and security policies
• Learned about *JWT* tokens, setting up databases, *Restful* APIs, and authenticating users

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 in any area
• Integrated with Google Maps and govt data. **Won the Most Creative Hack**; <https://github.com/irfanyusra/fastdr>

EXTRACURRICULARS

Outreach Volunteer, McMaster Start Coding | Teaching underprivileged students programming May 2018 – Present
Outreach Ambassador, *Geotab* | Promoted women in STEM through hackathons Sept 2020 – Aug 2021
Mentor, *Women in Technology Society* | Mentored a team of 4 students for a year-long project Sept 2020 – Apr 2021
Co-President, Western Karate Club | In charge of finance, organizing events, and outreach Sept 2019 – Apr 2020