

Shazil Arif

Software Engineering

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Education

- **Bachelor of Engineering, Software Engineering** Expected graduation April 2023
McMaster University, Deans' Honour List

Skills

- **Languages:** JavaScript, Python, Java, C#, C, Bash, HTML, CSS, SQL
- **Frameworks & Technologies:** Node.js, Express, Jest, Bootstrap, jQuery, EJS, .NET, Xamarin, Flutter
- **Tools:** MongoDB, Firebase, Google Cloud Storage, Heroku, Git, Travis CI, Linux/Unix

Experience

Full Stack Developer

July 2019 - August 2019

McMaster Muslim Students' Association (Mac MSA)

- Independently developed a content management system for a mobile app using **Node.js** and **Express**
- Built an intuitive UI with a focus on responsiveness using **Bootstrap**, **jQuery** and **EJS** templating engine
- Implemented user authentication, sessions, and registration using **Firebase authentication**
- Utilized **Google Maps API** allowing users to easily search for locations to add as points of interest
- Integrated **Google Cloud Storage** and **Filestack API** allowing users to easily upload and save media
- Setup a continuous deployment pipeline using **Git**, **Travis CI**, **Firebase Hosting** and **Cloud Functions**

Back End Android Developer

June 2018 / February 2019

Father Michael Goetz Secondary School

- Developed a proprietary android app for real-time indoor navigation
- Built a feature to calculate distances from a user's device to Wi-Fi access points to find the nearest one
- Updates user location in real-time from a MAC address to room number mapping as a JSON file
- Prototype built with **Xamarin Studio** and **C#**; rebuilt with **Flutter**, **Dart**, **Android Studio** and **Java**
- Showcased at DP Innovator's Summit 2019, awaiting approval for use by over 1000 students

Projects

Vidly

September 2019

Personal Project

github.com/shazil-arif/Vidly

- Developed a JWT protected REST API for video rentals using **Node.js**, **Express** and **MongoDB**
- Followed **modular design patterns** to develop a clean and reusable back end application
- Utilized modern JavaScript practices and features including **async/await** and **promises**
- Used the **Jest** framework to write and perform automated **unit** and **integration** tests on API endpoints

CloudLock

September 2019

Hack the North 2019 - University of Waterloo

devpost.com/software/cloudlock-z3p4hu

- Built a home security system that uses facial recognition for authentication via a mobile app
- Built a server-side API using **Node.js**, **Express** and **Firebase** to manage user logins and track activity
- Developed a web dashboard using **Bootstrap** and **jQuery** to view user login stats and activity

AirWise

June 2019

Enghack 2019 - University of Waterloo

devpost.com/software/airwise

- Developed a real-time air quality monitoring system using an Arduino, sensors and a web interface
- Built a website to retrieve data from **Google Firebase** logged by the sensors and update it in real-time
- Wrote a **Python** program to predict future air quality conditions using basic machine learning principles
- Presented to a panel of judges and placed **2nd overall out of over 100 teams**

Fit Together

January 2019

DeltaHacks V - McMaster University

devpost.com/software/fit_together

- Developed a cross platform mobile app to help people find nearby users and host fitness events
- Awarded **Best Use of Google Cloud Platform** by Major League Hacking (MLH)