

# Shazil Arif

## Software Engineering

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## Education

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- **Bachelor of Engineering, Software Engineering** Expected graduation April 2023  
McMaster University, GPA 10.2/12 (3.7/4), Deans' Honour List

## Skills

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

## Experience

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### Full Stack Developer

July 2019 - August 2019

McMaster Muslim Student's Association (MSA)

[mcmaster-msa.web.app](https://mcmaster-msa.web.app)

- 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**
- Added functionality to create, read, update and delete content backed by **Firebase Cloud Firestore**
- 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

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### Vidly

September 2019 - Present

Personal Project

[github.com/shazil-arif/Vidly](https://github.com/shazil-arif/Vidly)

- Developing a JWT protected REST API for video rentals using **Node.js**, **Express** and **MongoDB**
- Using **Jest** testing framework to write and perform automated **unit** and **integration** tests
- Utilized best JavaScript practices and ES6 features including **async/await** and **promises**

### CloudLock

September 2019

Hack the North 2019 - University of Waterloo

[devpost.com/software/cloudlock-z3p4hu](https://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

### AirWise

June 2019

Enghack 2019 - University of Waterloo

[devpost.com/software/airwise](https://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
- Implemented a feature to alert users via a text message if air quality conditions are harmful
- Wrote a **Python** program to predict future air quality conditions using basic machine learning principles
- Presented to a panel of judges and placed **2<sup>nd</sup> overall out of over 100 teams**

### Fit Together

January 2019

DeltaHacks V - McMaster University

[devpost.com/software/fit\\_together](https://devpost.com/software/fit_together)

- Developed a cross platform mobile app to help people find nearby users and host fitness events
- Built using **Flutter Framework** and **Dart**; implemented authentication with **Firebase authentication**
- Awarded **Best Use of Google Cloud Platform** by Major League Hacking (MLH)