Shazil Arif

Software Engineering

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Education

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

Skills

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

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

pyLib   **Present**
Personal Project   *github.com/shazil-arif/pyLib*
- Developing a Python library that implements several data structures and algorithms
- Includes implementations of linked lists, binary trees, tree traversal algorithms, graphs and more

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**
- Used **Jest** testing framework to write and perform automated **unit** and **integration** tests

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

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 **2**nd **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)**