# **Shazil Arif**

**८** (+1) 647-746-9134 | ☑ arifs2@mcmaster.ca | **?** shazil-arif | **in** shazil-arif

Education

**McMaster University** 

Hamilton, Ontario, Canada

BACHELOR OF ENGINEERING, SOFTWARE ENGINEERING

Expected Graduation April 2022

- GPA: 3.7/4.0, Deans' Honour List Recipient (2019 and 2020)
- Relevant Courses: Software Design (A+), Computer Architecture (A+), Unix Shell and Assembly Programming (A+)

**Experience** 

## **Full Stack Developer Intern**

Hamilton, Ontario, Canada

MENLOLAB INC

May 2020 - Present

- Engineered a robust and high performance microservice to manage user data and authorization that is used by **5+** microservices, using **Node.js**, **Express.js**, **MongoDB** and **Redis**
- Implemented a graph search algorithm to authorize users for inherited groups and projects, using TypeScript
- Reduced average MongoDB query time by **80%** by refactoring database code and creating database indexes
- Performed extensive unit and integration testing with a code coverage of 95%, using Mocha and Chai
- Allowed users to create and manage groups by developing 10 new front-end pages, using Vue.js and Socket.IO
- Reduced a new developer's setup time by **75%** by developing a script that generates boilerplate code, folder structure and necessary docker files to set up a new microservice

#### **Full Stack Developer**

Hamilton, Ontario, Canada

McMaster Muslim Students' Association

*July 2019 - September 2019* 

- Architected a full stack content management web application that is used to push notifications about ongoing events to **1000+** campus students, by self-learning various web development technologies
- Created an intuitive user interface allowing admins to post events and announcements, using **jQuery** and **Bootstrap**
- Developed RESTful API endpoints to manage user authentication and data, using Node.js, Express.js, Firebase and Google Cloud Storage

#### **Software Developer**

Mississauga, Ontario, Canada

FATHER MICHAEL GOETZ SECONDARY SCHOOL

February 2019 - March 2019

- Crafted a real-time indoor navigation app that detects user location based on nearby Wi-Fi access points, using Java
- Showcased app at **DP Innovator's Summit 2019** and awaiting approval for use by **1000+** students

Projects \_

### Swagger-doc-gen-cli

npmjs/swagger-doc-gen-cli

Personal Project June 2020

• Published an open source JavaScript package that generates an OpenAPI specification and received **1200+** downloads

AirWise devpost/software/airwise
Hackathon project July 2019

HACKATHON PROJECT

• Built an air quality monitoring web application that won **2nd overall** out of 128 teams at DeltaHacks 2019, using

- Built an air quality monitoring web application that won 2nd overall out of 128 teams at DeltaHacks 2019, using JavaScript, jQuery and Firebase
- Devised an algorithm in **Python** to predict future air quality data by approximating a curve of best fit on existing data

Pathify github/shazil-arif/Pathify

Course Project April 2020

- Engineered a RESTful API to find the shortest path that visits a set of destinations in order, using Java and Spring
- Implemented Dijkstra's algorithm and a Binary heap to evaluate a road dataset with over 1 million edges

**Vidly** github/shazil-arif/Vidly

Personal Project September 2019

- Crafted a RESTful API for a video rental service, using Node.js, Express.js, MongoDB and Jest
- Implemented user authentication using JSON Web tokens and deployed the API to Heroku

Skills

**Languages** Python, Java, JavaScript, TypeScript, C, C#, Bash, SQL, HTML, CSS

**Technologies** Node.js, Express, Spring Boot, Vue.js, MongoDB, Firebase, Redis, Docker, Heroku, GCP, Git, Linux