Shazil Arif

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Education

McMaster University   *Hamilton, Ontario, Canada*
BACHELOR OF ENGINEERING, SOFTWARE ENGINEERING   *Expected Graduation April 2022*
- **GPA: 3.70/4.00, Deans' Honour List Recipient (2019 and 2020)**
- Relevant Courses: Software Design (A+), Computer Architecture (A+), Unix Shell and Assembly Programming (A+)

Experience

MenloLab Inc   *Hamilton, Ontario, Canada*
FULL STACK DEVELOPER INTERN   *May 2020 - Present*
- Increased server performance **3 fold** by refactoring database code and modifying database schemas
- Reduced the time spent by the entire team writing documentation by developing a tool to automate the process
- Mentoring fellow interns on various topics including Node.js, MongoDB and full stack development
- Simplifying the development process for the entire team by identifying and fixing bugs by writing test suites
- Engineering a **microservice** from scratch to handle customer management, using **Node.js** and **Docker**
- Implementing a customer management dashboard with **Vue.js**, researching ways to optimize page load times

McMaster Muslim Students' Association   *Hamilton, Ontario, Canada*
FULL STACK WEB DEVELOPER   *July 2019 - Sep 2019*
- Lead the development of a mobile and web solution to keep the campus community up to date with ongoing events
- Architected a content management system web application, now used regularly to post events and announcements for **1000+** mobile users to view
- Used Node.js, Express, Bootstrap, jQuery, Firebase, Google Cloud Storage and Travis CI

Father Michael Goetz Secondary School   *Mississauga, Ontario, Canada*
ANDROID DEVELOPER   *February 2019*
- Crafted a proprietary android app to assist high school students with indoor navigation
- Built a real-time indoor navigation system that detects a user's location by calculating distances from a user's phone to nearby Wi-Fi access points and finding the closest one
- Showcased at **DP Innovator's Summit 2019**, awaiting approval for use by **1000+** students

Projects

Swagger-doc-gen-cli   *npmjs/swagger-doc-gen-cli*
PERSONAL PROJECT   *July 2020*
- Published an open source JavaScript package that helps generate API documentation, currently with **850+** downloads

AirWise   *devpost/software/airwise*
HACKATHON PROJECT   *July 2019*
- Built a real-time air quality monitoring system using sensors and a web interface
- Devised an algorithm in Python to predict future air quality data based on current trends
- Presented to a panel of judges and placed **2nd overall out of 128 teams** at Enghack 2019

Pathify   *github/shazil-arif/Pathify*
COURSE PROJECT   *April 2020*
- Designed a REST API for finding the shortest path that visits a given set of destinations in order
- Implemented Dijkstra's algorithm and a Binary heap from sratch that evaluates a dataset with **1M+** edges
- Used Java, Spring Boot, Heroku and JUnit

Vidly   *github/shazil-arif/Vidly*
PERSONAL PROJECT   *April 2020*
- Crafted a REST API for video rentals by following a **test driven development** approach
- Used Node.js, Express, MongoDB, Jest and Heroku

Skills

Languages   Python, Java, JavaScript, C, C#, Bash, SQL
Technologies   Node.js, Vue.js, Express, Spring Boot, Docker, Heroku, GCP, Git, Linux/Unix, MongoDB, Firebase