SHAZIL ARIF

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EDUCATION

Bachelor of Engineering, Software Engineering, McMaster University   Expected Graduation 2022
GPA: 3.70/4.00, Deans' Honour List Recipient
Relevant Courses: Computer Architecture, Data Structures and Algorithms, Databases, Concurrent Systems

EXPERIENCE

Front End Engineer Intern   May 2021 - August 2021
Facebook, Inc.   *Menlo Park, California, US*

- Incoming Front End Engineer (FEE) Intern

Undergraduate Teaching Assistant   September 2020 - Present
McMaster University (Department of Computing and Software)   *Hamilton, Ontario, Canada*

- Teaching empirical analysis of Data Structures and Algorithms such as shortest path and sorting algorithms
- Reviewing, grading and providing thorough feedback for **15+** groups' code submissions and reports weekly
- Led tutorials of **15+** students' and taught various programming concepts including Object-oriented programming, Recursion, Binary Search Trees, Stacks, Queues and Linked Lists (**Fall 2020**)
- Created **Python** scripts and tests in **Java** to auto-grade **130+** student assignments and tests (**Fall 2020**)

Software Engineer Intern   May 2020 - August 2020
MenloLab Inc.   *Hamilton, Ontario, Canada*

- Developed microservices client libraries and RESTful API's to manage user data and authorization that is depended on by **5+** other microservices, using **Node.js**, **Express.js** and **GraphQL**
- Implemented graph algorithms responsible for role-based access control between users and various resources
- Reduced server query time by **80%** by optimizing MongoDB queries and developing a cache with **Redis**
- Created **10+** new front-end components to allow users to create and manage groups, using **Vue.js**
- Wrote extensive unit and integration tests with a code coverage of **95%**, using **Mocha** and **Chai**

LEADERSHIP

Lead Software Engineer   July 2019 - Sep 2019
McMaster Muslim Students' Association   *Hamilton, Ontario, Canada*

- Architected a full stack content management web application that is used by admins to push notifications about ongoing events to **1000+** campus students, by self-learning various web development technologies
- Designed and built an intuitive user-interface and modular front-end components, using **jQuery** and **Bootstrap**
- Developed RESTful API endpoints to post images, events and announcements, using **Express.js** and **Firebase**

PROJECTS

Pathify   *github/shazil-arif/Pathify*

- Developed a web application that finds the shortest path between multiple destinations, using **React** and **Java**
- Implemented **Dijkstra's algorithm** and a **Binary Heap** to evaluate a road dataset with **400,000+** nodes

AirWise   *devpost/software/airwise*

- Built an air quality monitoring web application that won **2nd overall** out of 128 teams at EngHack 2019, using **JavaScript**, **jQuery**, **Python** and **Firebase**

SKILLS

JavaScript, Java, Python, C, C#, Go, SQL, HTML, CSS, React, Vue.js, Node.js, GraphQL, Docker, Git, LaTeX