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

EXPERIENCE

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

- Led the development of a brand new type of Facebook News Feed post that group admins can create to welcome new members and scales to **250M+** users on Facebook.com
- Developed **10+** new **React** components and designed data structures for complex state management, allowing group members to create, view, edit and re share posts
- Reduced post loading time by **50%** by lazily loading large lists of data, using **Relay** and **GraphQL** connections
- Improved the user experience by building an **auto complete** search, **infinite scroll** and a feature promotion UI, using **React** and **Hack/PHP**

McMaster University · September 2020 - April 2021
Undergraduate Teaching Assistant · *Hamilton, Ontario, Canada*

- Led weekly tutorials of **15+** students' and taught various programming concepts including Object Oriented programming, Recursion, Binary Search Trees, Stacks, Queues and Linked Lists
- Automated the marking of **130+** student coding assignments and exams by writing tests in **Python** and **Java**

MenloLab Inc. · May 2020 - August 2020
Software Engineer Intern (Full Stack) · *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 **Docker**
- 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** and **Socket.IO**

LEADERSHIP

McMaster Muslim Students' Association · July 2019 - Sep 2019
Lead Software Engineer · *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
- Developed RESTful API endpoints to create images, events and announcements, using **Express.js** and **Firebase**

PROJECTS

Open Source Project · *npmjs/package/swagger-doc-gen-cli*

- Published an NPM package that generates REST API documentation, and received **1600+** downloads

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, TypeScript, React, Node.js, Java, Python, PHP, C#, SQL, HTML, CSS, Vue.js, GraphQL, Docker, Git