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Mahimul Hoque

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EDUCATION

Hamilton, ON	**McMaster University**	Sept 2017 – December 2022 [Expected]

- **Major:** Computer Engineering, B.Eng.
- **Software Courses:** Software Development, Data Structures & Algorithms, Principles of Programming, Fund. of Machine Learning

EXPERIENCE

Incoming Software Engineer, Intern at IBM in Fall 2021

Fullstack Developer, Intern	**reachco.io**	June 2021 – Present

- Creating a tipping feature to allow audience to tip their hosts after an event has ended, which involves producing tipping flow using Figma, Stripe API implementation for payment processing in backend, and frontend coding of flow using React.
- Implemented 8x8 JaaS Meeting API, to replace previous API, in React frontend and added user verification for meetings in firebase functions backend written in JavaScript, which significantly improved UX, performance, and security.
- Used SendGrid email API in backend to send users emails of important activities such as event creation, tickets bought, or tips.
- Utilized React hooks, functions, components, and reactfire to improve functionality to chat and notification systems.
- **Leveraging knowledge** in Fullstack development, JS, React, Firebase (Firestore, Functions), Stripe, JaaS, SendGrid, Gitlab, Jira.

Software Developer, Volunteer	**MAX Gala**	April 2021 – Present

- Developing a free mental health service using ReactJS, NodeJS, PostgreSQL Engine on AWS RDS that anonymously connects people with similar feelings through a questionnaire and provides the opportunity to talk to connections through online calling service.
- Automated AWS CloudFormation deployment using GitHub actions and aws-actions, resulting in faster deployment compared to manual updates, and fixed issue with user cache not updating after user profile change due to CloudFront default rules.
- Fixed issues in the Jobs section of Aspire where jobs were not being shown in order, by implementing an efficient sorting algorithm in the AWS Lambda Function for Jobs which is written in Python.
- **Leveraging knowledge** in Fullstack development, React, Node, PostgreSQL, Python, AWS (RDS, Cognito, S3, SES, Lambda), GitHub.

Display Software Engineer, Intern	**AMD**	May 2020 – April 2021

- Saving thousands of hours and millions of dollars over time through critical contributions made to a program to standardize high-speed display connectors by creating main design guides, reviewing and approving partner company components, and developing a software to flash physical memory.
- Reduced human error possibilities significantly and reduced procedure time by many times to flash memory of display interface device by building a software application that reads and flashes physical memory with just a few clicks.
- Lead development and collaboration with different teams to make a design guide for the application which contained requirements, flowcharts of processes, language and program of choice, and a test plan with importance to user perspective.
- **Leveraged knowledge** in C#/Java programming, Python, Matlab, I2C protocols, Jira, technical documentation, and debugging.

PROJECTS

PullUp App

- Developing in a team, an Android and iOS app for individuals to post their home parking spots for people to find and rent.
- Working on the project in a professional manner, such as using GitHub Kanban board for Sprint tracking.
- Finished design guide and currently producing the front end using React Native with Styled Components.
- **Utilizing** React Native, NodeJS, ExpressJS, PostgreSQL Engine on Amazon RDS, Expo, Google Maps API, GitHub Projects.

Exercise Tracker

- Built an exercise tracking application that lets people create profiles, create exercise logs, and edit/delete existing workouts.
- Used MongoDB Atlas for storing user info and exercises and connected to backend where CRUD functions are implemented.
- **Utilized** MERN Stack, which consists of ReactJS, NodeJS, ExpressJS, MongoDB, MongoDB Atlas.

SKILLS

Languages: JavaScript, Java, Python, C#, HTML/CSS, C/C++, Matlab
Technologies: React, React Native, Node, Firebase (Firestore, Functions), AWS (RDS, S3, Cognito, SES, Lambda), NoSQL, SQL, Jira, Perforce, Postman