Muhammad Zaman

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https://github.com/mhzaman-cs | **Full Resume: https://www.mhzaman.com/resume.pdf** ↗

TECHNICAL SKILLS

Languages: JavaScript, Java, TypeScript, Python, HTML/CSS, C, C++, C#, SQL (MySQL, MSSQL), R
Frameworks and Tools: React, Node, Firebase, ASP.NET Core, REST API, Spring Boot, Angular, Bootstrap

EDUCATION

University of Waterloo   Waterloo, CA
Bachelor of Computer Science, Minor in Statistics   *Expected Graduation: 2024*

EXPERIENCE

Achievers Inc   May 2022 – Aug. 2022
Software Developer Intern   *Toronto, ON*
- Developed a **React** component library with **25+** standardized components to ease the development process
- Migrated external dependencies such as **Material-UI** out of the library by rewriting components which decreased load time by **8%** and made it easier for the architecture team to stage and deploy the library to production
- Completed a wide variety of **30+** Jira tickets ranging from resolving bugs to creating independent components such as Icon and Checkbox Group, and had written documentation about their function and utilization
- Ensured the library met the **WCAG 2.1** Accessibility standards by adding **ARIA** labels with proper tab indexing to components, and testing their accessibility with **JAWS** and **NVDA** screen readers
- Met and exceeded the **80%** coverage threshold of **JavaScript** unit testing by writing **50+ React unit tests** to ensure that the components and their attributes are working as expected

SPARK   July 2021 – June 2022
Software Developer   *Remote*
- Created a multiple choice quiz section using **ASP.NET Core** as the back-end and an **SQL database** for storing the questions which were used in **800+ quizzes** taken by students
- Authenticated **200+** student accounts to access quizzes using **ASP.NET Core** with **C#** to validate credentials
- Set up automated emails which sent **2000+** emails to student accounts confirming registration, quiz results, etc.
- Developed an accessible front-end using **React** and **Bootstrap** to educate **500+ children** in developing countries
- Reduced load time by **17%** by code-splitting, utilizing CDNs, minifying code and removing unnecessary plugins
- Addressed previous **UX/UI design** issues and standardized all design outputs with a mobile-first approach which increased the satisfaction rate of survey respondents who accessed the website through mobile **by 29%**
- Supported **6** new members of the team by having pair coding sessions and providing online resources for learning

CrowdDoing   May 2020 – Aug. 2020
Data Scientist Intern   *Remote*
- Collected data of **65+** herbs from different sources including the National Library of Medicine using data crawling techniques through **Python** with libraries such as **Scrapy** and **Beautiful Soup**
- Processed **35+** unstructured data sets through libraries such as **Pandas** and **NumPy** for standardization
- Applied cluster analysis techniques such as **K-means clustering** to classify **100+** items into nutrient categories
- Assisted in the development of a **recommender system** to suggest items based on user interaction with clusters

PROJECTS

Forex ↗ | *MongoDB, Express, React, Node, Firebase, Tailwind CSS, JWT*   December 2021
- Full-stack **MERN** app featuring a discussion form based on **Firebase** that allows for **P2P** Currency Exchange
- Uses a **MongoDB** database to store login credentials with an **Express.js** server to handle user authentication
- Utilizes **Fixer.io's API** to display exchange rates for **170** currencies as recommendations on the dashboard
- Keeps user authenticated in order to retain access to the API and chat by using **JWT** signature verification
- **React**-based front-end is focused heavily on **UX/UI** by using frameworks like **Tailwind CSS** and **PostCSS**

Employee Manager ↗ | *Spring Boot, Angular, MySQL, REST API, Bootstrap*   June 2022
- Full-stack **CRUD** application which allows for managers to store and edit information about employees
- Utilizes **Spring Boot** in **Java** on the back end to handle the logic related to managing employee data which is stored in the **MySQL** database, along with **Angular** in **TypeScript** and **BootStrap** in the front end for the **UI**
- **REST controller** is to make a **REST API** that uses **HTTP** requests to access and use data from the server