


# Muhammad Zaman

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<https://github.com/mhzaman-cs> | **Full Resume:** [muhammadzaman.tech/resume.pdf](https://muhammadzaman.tech/resume.pdf) 

## TECHNICAL SKILLS

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

## EDUCATION

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**University of Waterloo**

*Bachelor of Computer Science, Minor in Statistics*

Waterloo, CA

*Expected Graduation: 2024*

## EXPERIENCE

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**Achievers Inc**

*Software Developer Intern*

May 2022 – Aug. 2022

*Toronto, ON*

- Developed a **React component library** with **25+ standardized components** on the **UI Systems Team**
- Completed a wide variety of **30+ Jira tickets** ranging from resolving bugs to creating standardized components such as **Icon** and **Checkbox Group**, and wrote **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
- 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

**SPARK**

*Software Developer*

July 2021 – June 2022

*Remote*

- Developed a user-friendly website 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 mobile survey respondents **by 29%**
- 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** with **C#** to validate credentials
- Set up automated emails which sent **2000+** emails to student accounts confirming registration, quiz results, etc.
- Supported **6 new** members of the team by having **pair coding** sessions and providing online resources for learning

**CrowdDoing**

*Data Scientist Intern*


May 2020 – Aug. 2020

*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 **BeautifulSoup**, in order to provide data to the analytics team with the product's potential benefits, safety concerns, reactions, etc.
- Processed and cleaned **dozens** of unstructured data sets through libraries such as **Pandas** and **NumPy** in order to allow for data to be standardized and processed correctly


## PROJECTS

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**Forex**  | *MongoDB, Express, React, Node, Firebase, Tailwind CSS, JSON Web Tokens*

December 2021

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

**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