

Muhammad Zaman

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TECHNICAL SKILLS

Languages: JavaScript, Java, TypeScript, Python, C, C++, C#, SQL

Technologies: Pandas, TensorFlow, MongoDB, Express, React, Angular, Node, Spring Boot, ASP.NET Core

EDUCATION

University of Waterloo

Bachelor of Computer Science, Minor in Statistics

Waterloo, CA

2021 - 2025(Expected)

EXPERIENCE

Achievers Inc

Software Developer Intern

May 2022 – Aug. 2022

Toronto, ON (Remote)

- Developed a **React** component library with 25+ standardized components to ease web development process
- Removed external dependencies(ex. Material-UI) by rewriting components which decreased load time by **8%**
- Created independent components such as Icon and Checkbox Group, and had written documentation for them
- Migrated documentation from Gatsby to **Storybook.js** with **Webpack5**, by manually configuring SCSS, SVGs, aliases and storybook internals (docs, canvases, controls) to create an intuitive playground for testing components
- Achieved the **WCAG 2.1** Accessibility standards by adding ARIA labels with proper tab indexing to components
- Met and exceeded the **80%** coverage threshold of **JavaScript** unit testing by writing **50+** React unit tests

SPARK

Software Developer

July 2021 – April 2022

Fremont, CA (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 quiz results, registration, etc.
- Developed a front-end educational platform using **React** and **Bootstrap** to teach 500+ children
- Reduced load time by **17%** by code-splitting, utilizing CDNs, minifying code, and removing unnecessary plugins
- Standardized design outputs with a mobile-first approach which increased mobile user's satisfaction rates by **29%**

CrowdDoing


Data Scientist Intern

May 2020 – Aug. 2020

San Francisco, CA (Remote)

- Collected data for 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 data standardization
- Constructed a recommender system for herbs and medicinal foods using **TensorFlow** which served with ScaNN for retrieval, ranked items with TF ranking and leveraged multitask learning to recommend the top 5 items for a user
- Applied cluster analysis techniques such as **K-means clustering** to classify 100+ items into nutrient categories

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**

Citadel Data Open  | *Python, Plotly, Seaborn, Pandas*

March 2022

- Wrote a report in a team of 2 about how investments in businesses and education affect traffic in major cities
- Cleaned and structured multiple provided and external data sets with **1 Million+** entries and used that data to come to statistically significant conclusions about congestions in New York, NY, Austin, TX, and Washington, DC
- Graphs are generated using the **Python** libraries **Plotly** and **Seaborn**, and the data is organized using **Pandas**

Bank Account Manager  | *C++*

July 2022

- Created an optimized banking system in **C++** which uses data structures, such as Hashmaps and BSTs to efficiently store account information and allow for time-efficient access to it
- Enforced multiple user types which have different authorization levels allowing for specialized user tasks