Hamza 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 — Waterloo, CA
Bachelor of Computer Science, Minor in Statistics — *2021 - 2025(Expected)*

Experience

ATS Corporation — Jan. 2023 – May 2023
Software Developer Intern — *Cambridge, ON (Remote)*

- Developing a web app to display ATS machine data using **.NET** with **C#**, **Javascript**, **Python**, and **MSSQL**

Achievers Inc — May 2022 – Aug. 2022
Software Developer Intern — *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 — July 2021 – April 2022
Software Developer — *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 — May 2020 – Aug. 2020
Data Scientist Intern — *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

- Created a full-stack **MERN** app featuring a **Firebase** discussion form that facilitates P2P Currency Exchange
- Used a **MongoDB** database to store login credentials with an **Express.js** server to handle user authentication
- Utilized Fixer.io's API to display exchange rates for **170+** currencies as recommendations on the dashboard
- Incorporated **JWT** signature verification to maintain authorized user's access to the API and chat
- **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

- Co-authored a report which examined how investments in businesses and education affect traffic in major cities
- Cleaned, organized, and structured multiple provided and researched data sets with **1 Million+** entries
- Applied analysis techniques to derive statistically significant findings on traffic congestion patterns
- Created graphs using the **Python** libraries **Plotly** and **Seaborn**, while utilizing **Pandas** to organize the data