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
Bachelors of Computer Science, Minor in Statistics — *2021 - 2025(Expected)*

EXPERIENCE

ATS Corporation — Jan. 2023 – April 2023
Software Developer Intern — *Cambridge, ON (Remote)*
- Developing a web app to display ATS machine data using **.NET** with **C#**, **JavaScript**, **Python**, and **MSSQL**
- Using **Apache Subversion** for version control, **Crucible** for code reviews, and **Jenkins** for pipeline automation

Achievers Inc — May 2022 – Aug. 2022
Software Developer Intern — *Toronto, ON (Remote)*
- Developed a **React** component library with 25+ standardized components to ease the 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 wrote documentation for them
- Configured **Storybook** with **Webpack5** by manually configuring internals as part of migrating away from Gatsby
- Achieved the **WCAG 2.1** Accessibility standards by adding ARIA labels with proper tab indexing to components

SPARK — July 2021 – April 2022
Software Developer — *Fremont, CA (Remote)*
- Developed a multiple choice quiz app used in 800+ student quizzes, utilizing **ASP.NET Core** and **MSSQL**
- Implemented authentication on the quiz platform and set up automated email responses confirming scores, etc.
- Reduced load time by **17%** by utilizing CDNs, minifying code, removing unnecessary items and plugins
- Developed a front-end educational platform using **React** and **Bootstrap** to teach 500+ children
- Standardized the design language with a mobile-first approach which improved mobile user satisfaction by **29%**

CrowdDoing — May 2020 – Aug. 2020
Data Scientist Intern — *San Francisco, CA (Remote)*
- Collected data for 65+ herbs by scraping multiple sources through **Python** with **Scrapy** and **Beautiful Soup**
- Processed and cleaned 35+ data sources into a singular, coherent dataset using **Pandas** and **NumPy**
- Wrote a recommendation system for herbs and medicinal foods using the TF ranking algorithm in **TensorFlow**
- Applied cluster analysis techniques such as **K-means** to classify 100+ items into their nutrient categories

PROJECTS

Forex ☑ | *MongoDB, Express, React, Node, Firebase, Tailwind CSS, JWT* — December 2021
- Created a real-time discussion platform to facilitate P2P currency exchange using the **MERN** stack and **Firebase**
- Integrated Fixer.io's API to display precise exchange rates for **170+** currencies on the dashboard
- Incorporated **JWT** signature verification to maintain authorized user's access to the API and chat
- Developed a **UX/UI**-focused front-end using **React** with frameworks like **Tailwind CSS** and **PostCSS**
- Used a **MongoDB** database to store login credentials with an **Express.js** server to handle user authentication

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 external 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

Employee Manager ☑ | *Spring Boot, Angular, MySQL, REST API, Bootstrap* — June 2022
- Created a full-stack CRUD application that enables managers to store, view, and edit information about employees
- Utilized **Spring Boot** in **Java** to handle back-end logic and stored the data in a **MySQL** database
- Created a **REST API** through a REST controller which uses HTTP requests to access data from the server
- Utilized Spring Data **JPA** to effectively develop the persistence layer to communicate with the **MySQL** database
- Developed front-end control panel with **Angular** in **TypeScript** integrated with **BootStrap** for UI enhancement