Miles 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 - Present*

EXPERIENCE

ATS Corporation   Jan. 2023 – Apr. 2023
Software Developer Intern   *Cambridge, ON (Remote)*
- Developed illuminate ↗, which has **350+** business users, using .NET with C#, Angular with JavaScript and MSSQL
- Optimized database calls by decomposing **MSSQL** queries resulting in a **16%** decrease in display table load time
- Cleaned up code and implemented best practices resulting in a **38%** decrease in code smell issues on **SonarQube**

Achievers Inc   May 2022 – Aug. 2022
Software Developer Intern   *Toronto, ON (Remote)*
- Developed a **React** component library with 35+ standardized components to ease the web development process
- Worked closely with the product management team with waterfall to build wireframes for new component ideas
- Established data fetching control and reduced API calls by **23%** by transitioning from REST APIs to **Graphql**
- Manually configured **Storybook** with **Webpack5** by modifying internals to migrate away from Gatsby for PM team

SPARK   July 2021 – Apr. 2022
Software Developer   *Fremont, CA (Remote)*
- Developed a multiple choice quiz app used in 800+ student quizzes, utilizing **ASP.NET Core** and **MSSQL**
- Concurrently developed a front-end educational platform using **React** and **Bootstrap** to educate 500+ children
- Standardized the design language with a mobile-first approach which improved mobile user satisfaction by **29%**
- Reduced load time by **17%** by utilizing CDNs, minifying code, removing unnecessary items and plugins
- 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   *San Francisco, CA (Remote)*
- Leveraged indexing and partitioning in **PostgreSQL** to improve query performance by **31%** on average
- Wrote a recommendation system for herbs and medicinal foods using TF ranking in **TensorFlow** with ScaNN
- Applied cluster analysis techniques such as **K-means** to classify 100+ items into their nutrient categories

Elevate the Future   Aug. 2020 – May 2021
President Elevate the Future Canada   *Montreal, QC*
- Founded the first Canadian branch of Elevate the Future, which held computer science workshops across Montreal
- Coordinated a team of 8 to create content slides with Agile best practices for teaching front-end web development

Note: I have also coordinated 3 clubs, been a school ambassador, tutored and participated in ModelUN

PROJECTS

Forex ↗ | *MongoDB, Express, React, Node, Firebase, Tailwind CSS, JWT*
- 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 Firebase-powered chat and API
- **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*
- Co-authored a report which examined how investments in businesses and education affect traffic in major cities
- 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

OpenCare ↗ | *Spring Boot, XAMPP, Maven, MySQL, REST API, React, Vite*
- Built a back-end API using **Spring Boot** with **Java** and **Maven** to facilitate thread creation, voting on replies, etc.
- Implemented a database solution for accessing threads, reducing load time by **19%**, using **MySQL** and **XAMPP**
- Collaborated on the development of a user-friendly front-end using **React** with **JavaScript**, and **Vite** (Demo ↗)