

# Miles Zaman

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## TECHNICAL SKILLS

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

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

## EDUCATION

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**University of Waterloo**

*Bachelors of Computer Science, Minor in Statistics*

Waterloo, CA

2021 - 2025(Expected)

## EXPERIENCE


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**ATS Corporation**

*Software Developer Intern*

Jan. 2023 – Apr. 2023

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**
- Fixed bugs related to security and permissions issues, resulting in a **12%** reduction in vulnerability alerts

**Achievers Inc**

*Software Developer Intern*

May 2022 – Aug. 2022

Toronto, ON (Remote)

- Developed a **React** component library with 35+ standardized components to ease the web development process
- Removed external dependencies (ex. Material-UI) by rewriting components which decreased load time by **8%**
- 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
- Achieved the **WCAG 2.1** Accessibility standards by adding ARIA labels with proper tab indexing to components

**SPARK**

*Software Developer*

July 2021 – Apr. 2022

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 confirmation emails for scores, sign-up, etc.
- Reduced load time by **17%** by utilizing CDNs, minifying code, removing unnecessary items and plugins
- 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%**

**CrowdDoing**

*Data Scientist Intern*


May 2020 – Aug. 2020

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**
- 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

## PROJECTS


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**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
- 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

**OpenCare**  | *Spring Boot, XAMPP, Maven, MySQL, REST API, React, Vite*

- Implemented a real-time Q&A using **STOMP** over a WebSocket protocol with **SockJS** on the client-side
- 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 )