Miles Zaman

(226) 751-5104 | mileszaman@gmail.com | miles-zaman | mhzaman-cs | www.mhzaman.com

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

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
- 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**
- Achieved the **WCAG 2.1** Accessibility standards by adding ARIA labels with proper tab indexing to components

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**
- 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 — 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**
- Leveraged indexing and partitioning in **PostgreSQL** to improve query performance by **31%** on average
- 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** to classify 100+ items into their nutrient categories

Projects

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

Amazon Reviews Scraper | *Python, Scrapy*

- Leveraged **Python** and **Scrapy** to scrape **10k+** customer reviews from different products based on ASIN number
- Utilized **Scrapy**'s built-in boilerplate and implemented the scraper components using **OOP principles**
- Prevented the program from getting caught in a CAPTCHA by adding a cool down and opening tabs in-browser

Stockify | *Python, Plotly, Seaborn, Pandas*

- Created a stock visualizer which displays interactive graphs for any of the S&P 500 stocks with different comparisons
- Accessed data from a Kaggle data set from 2013-2018 and created an interactive interface to select the chart type
- Generated the graphs using the **Python** library **Plotly** and organized the data using **Pandas**

Vaccinator | *Python, Pygame*

- Developed a Covid-19-based remix of space invaders employing **Pygame** with **Python** using **OOP principles**
- Implemented an interactive and efficient GUI resulting in a **35%** increase in application speed and elimination of lag