

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

Bachelor of Computer Science, Minor in Statistics

Waterloo, CA

2021 - 2025(Expected)

EXPERIENCE

ATS Corporation

Software Developer Intern

Jan. 2023 – April 2023

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

Software Developer Intern

May 2022 – Aug. 2022

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

SPARK

Software Developer

July 2021 – April 2022

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
- 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 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

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

Stockify  | *Python, Plotly, Seaborn, Pandas*

May 2021

- Created a stock visualizer capable of displaying an interactive graph of any of the S&P 500 stocks with different comparisons such as Opening/Closing value, Daily High/Low Price, or Volume traded compared against the date
- Accessed data from a Kaggle data set from 2013-2018 and created a interactive interface to select the chart type
- Generated the graphs using the **Python** library **Plotly** and organized the data using **Pandas**

Amazon Reviews Scraper  | *Python, Scrapy*

July 2021

- 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, such as the HTML parser, for scraping content on pages, and the initiator, which loops through the different products using **OOP principles**
- Prevented the program from getting caught in a CAPTCHA by adding a cool down and opened tabs in-browser

Vaccinator  | *Python, Pygame*

July 2021

- Developed a game employing **Python** and **Pygame** where the player(a vaccine) has the goal of getting past as many outbreaks of Covid-19(enemy) as possible while protecting the humans at the back
- Implemented games components such as the vaccine, shots, and viruses, using **OOP principles**