

Muhammad Zaman

SOFTWARE ENGINEER · FULL STACK DEVELOPER · BACHELOR OF COMPUTER SCIENCE

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Awards & Skills

Languages: HTML/CSS, JS, Python, R, Racket, C/C++.

Frameworks and Tools: Node.js, Express.js, React, Next.js, jQuery, Pandas, Numpy, Matplotlib, BeautifulSoup, Scrapy, SciKit-Learn, Matplotlib, Seaborn, Plotly, Keras, pyspark, Pygame, Flask, Bootstrap, Git, Postman.

Awards: PPG Canada Scholarship (2021), University of Waterloo President's Scholarship (2021), Centennial Regional High School Principal's Honor Award (2020), CRC Robotics Leadership Award (2020), Les Prix du Mérite en Histoire (2019).

Education

University of Waterloo

Waterloo, Canada

COMPUTER SCIENCE MAJOR (TERM 1A)

2021 - 2026

- Relevant Coursework: Functional Programming, Algorithm Design & Data Abstraction, Algorithmic Problem Solving, Probability and Statistics
- Activities and Societies: Computer Science Club || Data Science Club || Tech+ UW || UW FinTech Club (UWFTC) || UW Cyber Security || National Organization for Business and Engineering (NOBE) || Model United Nations || AIESEC || Ascend Canada (Waterloo Chapter) || EDGE Waterloo

Work Experience

SPARK

Remote

FULL STACK DEVELOPER

July 2021 - PRESENT

- Part time, currently in the process of creating the front-end aspect of the website with **react** and **bootstrap**
- Ensured the technical feasibility and optimum functioning of design features that **accelerated load-time by 17%**
- Offered design ideas and supported lesser skilled members of the team by providing online resources to grow and develop skills

CrowdDoing

Remote

DATA SCIENCE INTERN

May 2020 - Aug. 2020

- Collected **data of 65+ herbs** from different sources including the National Library of Medicine using data crawling techniques through **Python** with libraries such as **scrapy** and **BeautifulSoup**.
- Processed and cleaned dozens of unstructured data-sets through libraries such as **pandas** and **NumPy**.
- Applied cluster analysis techniques such as **K-means clustering** to classify 100+ nutrients into ingredients and categories.

Elevate the Future

Montreal, Canada

PRESIDENT ETF CANADA

May 2020 - May 2021

- Elevate the Future is a student-run worldwide non-profit with the goal of helping students attain skills in Computer Science and Business.
- **Founded and formed** the first Canadian branch of Elevate the Future, which held computer science workshops for youth across Montreal.
- **Taught dozens of Computer Science workshops** such as the basics of vanilla front-end web development (**HTML, CSS, and JavaScript**)

Projects

Amazon Reviews Scraper

Solo Project

COMMON FREELANCE OPPORTUNITY, CREATED BECAUSE OF ITS REAL WORLD USE AND DEMAND

July 2021

- Built using **python** and **scrapy**, could scrape multiple reviews from different products if the values in the list of ASIN in reviews.py is changed.
- Code for the project could be seen on the following GitHub link: <https://github.com/MuhammadZ985/amazonReviews>

Vaccinator

Solo Project

A FUN REMIX OF SPACE INVADERS

May 2021

- Built using **python** and **pygame**, as the vaccine the goal of the game is to get past as many outbreaks of Covid-19 as you can.
- Utilized the git flow commit model to streamline development
- Code could be seen on the following GitHub link: <https://github.com/MuhammadZ985/Covid-19-Game>

Stockify

Solo Project

DATA VISUALIZATION

May 2021

- Built using **python** and data science tools, such as **pandas** and **plotly**. Input the stock that you would like to see a visual representation of.
- Code could be seen on the following GitHub link: <https://github.com/MuhammadZ985/S-P500-Stock-Visulaization>

Forex

Solo Project

A WEB APPLICATION THAT ALLOWS FOR PEER-TO-PEER CURRENCY EXCHANGE

May 2021

- Built using **React**. The website features a discussion form that is structured similarly to MS teams. It allows for people to connect and trade their desired currencies. The project also focuses heavily on UX/UI design.
- Code could be seen on the following GitHub link: <https://github.com/MuhammadZ985/Forex>