SOFTWARE ENGINEER · DATA SCIENTIST · FULL STACK DEVELOPER · BACHELOR OF COMPUTER SCIENCE

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#### Skills & Awards\_

Languages: Python, JavaScript, R, C/C++, HTML/CSS, Racket

Frameworks and Tools: Pandas, Numpy, Scrapy, SciKit-Learn, Tensorflow, Plotly, Flask, Node, Express, React, Bootstrap, Git, Firebase, REST API

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

### **Experience**

**Achievers**Remote

SOFTWARE DEVELOPER INTERN

May 2022 - Aug 2022

- Developing an internal **React component library** for standardized development on the **UI Systems Team** while following the **Scrum** development process
- · Handling tickets on Jira in order to resolve bugs or contribute to development based off ticket requirements
- Write **React unit tests** in order to ensure that the components are working as expected and that accessibility requirements are met

SPARK
SOFTWARE DEVELOPER
July 2021 - PRESENT

SOFTWARE DEVELOPER

• Developed a user-friendly website using **React** and **Bootstrap** to educate **500+ children in developing countries** 

- Accelerated load-time by 17% by code-splitting, utilizing CDNs, minifying code, and removing unnecessary content and plugins
- Standardized all design outputs with a mobile-first approach along with addressing previous UX/UI designs issues in order to ensure app uniformity
- Offered design ideas and supported newer 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, in order to provide data to the analytics team with the product's potential benefits, safety concerns, reactions, etc.
- · Processed and cleaned dozens of unstructured data-sets through libraries such as Pandas and NumPy in order to allow for data to be processed correctly
- Applied cluster analysis techniques such as K-means clustering to classify 100+ nutrients into ingredients and categories for recommendation engine
- Assisted in the development of a recommender system to suggest medicinal foods based on user choices from the clustered data

Other Experiences: Teaching Assistant at Kumon (Apr 2019 – Aug 2020)

## **Projects**

#### Amazon Reviews Scraper ☑

Solo Project

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

July 2021

- Leveraged **Python** and **Scrapy** to scrape multiple product reviews from different products based on the unique ASIN number provided by Amazon
- Added cool down and open in-browser to prevent the program from getting caught in Amazon's CAPTCHA trap and continue downloading reviews

Citadel Data Open ☑ Group Project

SUBMISSION FOR 2022 EAST-COAST DATATHON HOSTED BY CITADEL AND CORRELATION ONE

March 2022

- Wrote a report in a team of 2 about how investments in businesses and education affect traffic in major American cities and provided recommendations on how municipal governments can help reduce congestion through investments in these areas
- The graphs are generated using the Python libraries Plotly and Seaborn, the data is organized using Pandas

**Vaccinator** ✓ Solo Project

A FUN REMIX OF SPACE INVADERS SUBMITTED TO HACK-CADE HOSTED BY MLH

May 2021

- Employed Python and Pygame to develop a game where the player is a vaccine with the goal of getting past as many outbreaks of Covid-19 as you can
- Implemented games components such as the vaccine (player), shots and viruses (enemies), using **OOP principles**

A FULL-STACK MERN APP THAT FEATURES A DISCUSSION FORM THAT ALLOWS FOR PEER-TO-PEER CURRENCY EXCHANGE

Solo Project
December 2021

- Created a chat using Firebase which allows for unlimited messaging where users are asked to post their desired and possessing currencies to establish trade
- Focused heavily on UX/UI design by using frameworks like Tailwind CSS, the front end is built using React and the back end with Node.js
- Uses a MongoDB database to store login credentials as well as Express to help facilitate in creating the server, which handles user authentication
- Web application includes authentication using **JWT signature verification** to keep the user logged in so that they may continue to use the API and chat
- Utilizes Fixer.io's API to display current exchange rates of commonly traded currencies on the dashboard accessible upon login

## **Education**

Forex 🖸

# University of Waterloo BACHELOR OF COMPUTER SCIENCE

Waterloo, Canada

Expected Graduation: 2024

- Relevant Coursework: Functional Programming, Algorithm Design & Data Abstraction, Probability, Linear Algebra, Statistics (Advanced Level)
- Activities and Societies: Computer Science Club, Data Science Club, UW Cyber Security, University of Waterloo Finance Association

Other Institutions: Science at Marianopolis College (2020-2021), Centennial Regional High School Talented & Gifted Program (2015-2020)