Alexander Ma

Contact Information a37ma@uwaterloo.ca (416) 219-7460 GitHub: https://github.com/TheZombieCloud

LinkedIn: https://www.linkedin.com/in/alexander-ma-652a50159/

Website: alexma.me

Tools & Languages: React, Flask, HTML/CSS, Python, Java, C, C#, Firebase, SQLite, Git

Education Candidate for Software Engineering (co-op), University of Waterloo, Expected May 2024

Projects Slate React, Flask, HTML, CSS, Firebase

Sep. 2019 - Jan. 2020

- Created a social media webapp with the ability to create schedules and see your friends' availability for the current day
- Implemented endpoints to send **POST** and **GET** requests in order to retrieve and update schedule, login, and feed information
- Implemented the frontend using **React** in order to display a schedule given schedule block information and the user feed given friend availability for the current day
- Implemented the backend using **Flask** in order to process information from the frontend and push the updates to the **Firebase Real-time database**

Smart Pharmacy Java, JavaScript, Firebase

Sep. 2019 - Dec. 2019

- Developed the backend of a smart vending machine that recognizes user based on a facial profile created by their doctor and dispenses the corresponding medication
- Implemented endpoints to send HTTP requests in order to update prescription, user, and transactional data
- Implemented Firebase Cloud Functions using JavaScript in order to send and receive data from the vending machine and doctor's app, updating the Firebase Real-time database based on the transaction
- Implemented functions in Java that the Doctor's client calls to send data to the Firebase Cloud Functions

Econumy Python, Discord API, SQLite 3

July 2019 - Sep. 2019

- Created a chatbot that implements an economy into the popular chatting app Discord
- Integrated responses into the bot when users type specific commands using the
 Discord.py API and Python
- Implemented functions that perform **CRUD** operations to a local database in **SQLite 3**

Activities HackIR

August 2018 - Dec. 2018

- Organized and lead a MLH local hack day hackathon with 6 other people
- Managed the technical side of the hackathon, with tasks including ensuring presenters didn't have any technical difficulties and judging final projects
- Garnered over 130 participants through the use of HackerEarth and other similar sites