Rachel Wu

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Summary of Skills

- · Main Programming Languages: Java, Python, C++, C, HTML, Javascript, CSS, SQL.
- Technologies: React, Angular, SpringMVC, Flask, Node.js, MySQL, Microsoft SQL Server, Git, Docker, Selenium, Maven, Swagger.

Work Experience

Online Teaching Technology Assistant (Part-Time) - University of Toronto

Sept 2020 - now

- Learned about technical challenges faced by an organization during **digital transformation**. Helped clients move their materials and resources online, and ensured that they are operating well.
- Researched compatibility between different **operating systems** and **optical drives**, and made purchase suggestions.
- Demonstrated good time management skills by balancing school and work.

IT Systems Assistant - Government of Ontario

Jun 2020 - Sept 2020

- Developed a **Spring Boot API** using **Java** that searched information from **MySQL** and **Microsoft SQL Server database**. I created the **API shell** with **Swagger**, built the program that **queried the database** with my colleagues, did **code refactoring**, tested the API using **Postman**, **dockerized** the application, ran the **Docker image** in **Docker container**, connected it with **MySQL Docker container**, and pushed the **Docker image** to **Docker Hub**.
- Created a **Spring Boot** form submission web application using **Java**, **HTML**, **CSS**, **JavaScript** and **Bootstrap**. Built the program using **Maven**, generated a **Jar** file and a **Docker image** for the application, ran the **Docker image** in **Docker container**, and pushed the **Docker image** to **Docker Hub**.
- Built automated browser testing applications using Selenium and Python.

Awards and Prizes

Hack the Earth - Winner of Best Public Health Hack

May 2020

- Our team won the **Best Public Health Hack** in the hackathon with **301 participants**.
- Came up with the idea for a program that managed the number of people inside shops to slow the spread of COVID-19. The OpenCV part detected people entering and exiting a shop, counted the number of people inside the shop, and sent it to Arduino and MongoDB. Arduino closed the door when the number of people exceeded the limit.
- Wrote the **Arduino program** that controlled a servo motor and a led light, and helped debug a **Flask** program that communicated with **Arduino** via computer port.

NSBEHacks 2020 - Winner of IBM Challenge

Feb 2020

- Our team built a chatbot that helped new immigrants in Canada search for homes and schools using IBM Watson.
- · Allocated tasks to team members, narrowed down the scope of the problem, and set internal deadlines.

Faculty of Applied Science & Engineering Admission Scholarship

2019

• The Faculty of Applied Science & Engineering Admission Scholarship (\$10,000) was awarded to me based on my achievements in secondary school and extracurricular involvement.

Education Background

· University of Toronto, Computer Engineering (Expected Graduation Year: 2023)

Extracurricular Activities

University of Toronto Chemical Vehicles Club (Mechatronics and Operations)

Oct 2019 - Aug 2020

- · Analyzed the data from the sensor and designed an algorithm to control the vehicle according to the data.
- \cdot Suggested an alternative approach to building the reaction chamber which improved the accuracy of the data collected by the sensor.