Rachel Wu

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Summary of Skills

· **Main Programming Languages:** Java, JavaScript, C++, Python, C, HTML, CSS, SQL.
· **Technologies:** ReactJS, AngularJS, SpringMVC, Flask, Node.js, MySQL, Microsoft SQL Server, Git, Docker, Selenium, Maven, Swagger.

Work Experience

Functional Analyst – Bombardier Recreational Products   May 2021 – Aug 2021

· Used Google sheets, Excel, and **Regex** to clean and analyze data. Migrated data in and out of Salesforce with Data Loader.
· Designed and built Salesforce Flows that helped users access information, and send notifications.
· Managed user access to the development environment by creating and assigning custom permissions.

Online Teaching Technology Assistant (Part-Time) – University of Toronto   Sept 2020 – Feb 2021

· Researched compatibility between different **operating systems** and **optical drives,** and made purchase suggestions.

IT Systems Assistant – Government of Ontario   Jun 2020 – Sept 2020

· Developed two **Spring Boot** applications using **Java** and **Dockerized** the applications. The first program 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**, and connected it with **MySQL Docker container**. The second program was a form submission web application, which I created using **Java**, **HTML**, **CSS**, **JavaScript,** and **Bootstrap**.
· Built **automated browser testing applications** using **Selenium** and **Python**.

Programming Projects

Git Learning Website   Jun 2021 – now

· Built a website to help students understand Git using **ReactJS**. The website parsed the Git log string using **Javascript** and **regex**, used **Bootstrap** to dynamically display the Git commits in boxes, and connected the Git commits boxes using **SVG**s. After users click on the commit boxes, the program would provide suggestion options.

Personal Website (https://rachelwuuu.github.io/personalWebsite)   Feb 2021 – now

· Built my personal website using **AngularJS** with **4** Angular components, used **Chart.js** to display data about my coding projects in a pie chart, and used **Boostrap** and **CSS animations** to achieve flip and shadow effects.

Buddify (UofTHacks VIII – Participant)   Feb 2021

· Our team built a project that matched users based on MBTI and common interests to help them make friends.
· Developed the program that fetched the users' information from the database using **Axios** and **ReactJS**. Tested the program using **JSON Server**. Created **CSS animations** to beautify the website.

SafeSpaceShop (Hack the Earth – Best Public Health Hack)   May 2020

· **Came up with the idea** of a program that managed the number of people in shops to slow the spread of COVID-19.
· Wrote the **Arduino program** that controlled a servo motor and an LED light, and helped debug a **Flask** program that communicated with **Arduino** via computer port.

Crib Finder for African Newcomers (NSBEHacks 2020 – Winner of IBM Challenge)   Feb 2020

· **Allocated tasks** to team members, narrowed down the **scope** of the problem, and set **internal deadlines**.

Education Background

· **University of Toronto**, **Computer Engineering** (Expected Graduation Year: 2024)
· Received the Faculty of Applied Science & Engineering Admission Scholarship ($10,000), which was based on my achievements in secondary school and extracurricular involvement.