

Richard Ma

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Skills

Languages

- C
- C++
- Java
- Python
- JavaScript

Frameworks And Tools

- Node.js
- React
- Angular
- JQuery
- SQL
- Flask
- Docker
- Git
- Bootstrap
- Jenkins

Education

University of Waterloo

Candidate for Bachelors
of Applied Science,
Computer Engineering
2016 to 2021

Interests

- Basketball
- Fashion
- Hip-Hop
- PC Gaming
- History
- Cooking

Work Experience

Full-Stack Developer

Huang & Associates Analytics

Spring 2018
Toronto, ON

- Led development of **APIs** using **Python** to allow external users to access internal modeling, analytic and simulation tools
- Built custom estimation features on merchant platform with **Python**, **SQL** and **Redis** to improve usability and reduce data search time by **90%**
- Designed and developed entire front-end component of digital insurance marketplace platform with **Angular**

Software Engineer

Telus Health

Fall 2017
Toronto, ON

- Performed research and development of **Docker Swarm** to implement continuous integration pipeline using **Maven**, **Git**, **Jenkins** and **Tomcat**
- Worked with several Docker components to create **Docker files**, images, and containers
- Spearheaded development of front-end web components using **Angular** for Telus' client portal to support transfer of patient files

Signal System Analyst

Metrolinx

Winter 2018
Toronto, ON

- Automated daily tasks such as generation of Signal Delay reports and on-site audit reports using **Python**, improving time efficiency by **100%**
- Designed and implemented energy and power management methods for Metrolinx-owned Snow Clearing Devices to reduce energy use

Projects

OutfitHelper

Node.js, Heroku

- Facebook chatbot that sends weather updates and outfit suggestions that are suitable for that day's weather conditions

FeedUs (EngHack 2018)

Node.Js, Angular, MySQL, Maps API

- Web application that connects people and recommends nearby restaurants based on food preferences and geographical location

mAPPedout (ECHack 2017)

Firebase, Angular, Java, Maps API

- Social media platform that facilitates coordination and social outreach of both spontaneous and planned events. Finished **top 5** in hackathon.

CatSecure (EngHack 2017)

JavaScript, Python

- Google Chrome plugin that utilizes live RSA encryption and decryption to enhance password security and automatic password input