

# RICHARD MA

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## Skills

### LANGUAGES

C

C++

Java

Python

JavaScript

HTML/CSS

VBA

### FRAMEWORKS AND TOOLS

Node.js

jQuery

Angular.js

Bootstrap

React.js

Docker

Android Studio

Git

Jenkins

Heroku

Firebase

Maven

Tomcat

## Education

University of Waterloo  
Candidate for BAsC Computer  
Engineering 2016- 2021

## Interests

Basketball

Fashion/Streetwear

Food/Cooking

History

Hip-Hop

Video Games

## Experience

### Full-Stack Developer

Huang & Associates Analytics Inc.

Toronto, ON

Spring 2018

- Led development of external API using **Python** to allow users to access internal modeling, analytic and simulation tools for risk analytics platform
- Utilized **Python, SQL, Redis** to create and improve various features on the merchant platform
- Applied **AngularJS** to develop front-end controller and custom directives for digital insurance distribution platform
- Spearheaded front-end development for the digital insurance distribution platform

### Programmer Analyst

Telus

Mississauga , ON

Fall 2017

- Research and development of utilizing **Docker Swarm** for continuous integration using **Maven, Git, Jenkins** and **Tomcat**
- Experienced working with several **Docker** components (commands and microservices management) to create **Docker images and containers**
- Developed Web applications that allowed Telus' clients to transfer data using **Angular, JQuery, HTML, CSS** and **Java**

### Signal Systems Assistant

Metrolinx

Toronto, ON

Winter 2017

- Automated daily tasks such as Signal Delay reports and on-site audit reports using **VBA**
- Implemented energy and power management methods for Metrolinx owned Snow Clearing Devices to reduce energy use

## Projects

### MyLittleHelper

Node.js, Heroku

- A Facebook chatbot that sends weather and outfits that are weather appropriate. NBA stats and scores, and more features to be added

### Feed-Us (EngHacks 2018)

Node.js, Angular, HTML/CSS, MySQL, Google Maps API, Stdlib

- Web application that matches people who are looking to dine with others and recommends them restaurants according to their preference of food and distance of both parties

### mAPPedout (ECHacks)

Javascript, HTML/CSS, Java, Firebase, Google Maps API

- Android and web application designed to let users create events/activities, look up, and join ones hosted by your peers
- Finished Top 5 in the event

### CatSecure (EngHacks)

Javascript, Python, HTML/CSS

- Google Chrome plugin that enhances password security by implementing a live RSA encryption and decryption, as well as automatic password input

### Hand gesture based puzzle game for android

Java

A "2048" based puzzle game with motion controls