

RICHARD MA

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SKILLS

Languages: Python, JavaScript, Ruby, GraphQL, Java, C++, C, SQL

Technologies: Ruby on Rails, Node.js, React, Redux, Angular, Flask, Ember, CoffeeScript, MongoDB, Git

WORK EXPERIENCE

Software Developer – Universe (Ticketmaster)

Toronto, ON (Jan - Apr 2019)

- Led development for analytics report generation feature, which aggregates and exports data from **MongoDB** based on the user-defined scope using **Ruby** and **GraphQL**
- Constructed **multi-user management** system to enable cross-user collaboration and boost engagement for over **200,000** Universe account holders with **Ruby**, **React** and **Redux**
- Optimized Universe's account permissions API by removing **N+1 query** with **Ruby** and **GraphQL** to **reduce load time** by up to **1000%**
- Overhauled IP-based Geolocation tracking system with zip code-targeted system to **improve tracking accuracy** from city to street-specific with **Ruby**

Full-Stack Developer – Huang & Associates Analytics

Toronto, ON (May - Aug 2018)

- Led development of **APIs endpoints** using **Python** to allow external users to access internal modelling, 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

Toronto, ON (Sep - Dec 2017)

- Implemented front-end web components using **Angular** for business facing processes
- Integrated **Docker Swarm** to implement continuous integration pipeline using **Maven**, **Git**, **Jenkins** and **Tomcat**

PROJECTS

OutfitHelper

Node.js | Heroku

- Facebook chatbot that sends weather updates and outfit suggestions suitable for weather conditions

mAPPedout

Angular | Java

- Social media platform which facilitates coordination and social outreach for spontaneous & planned events. Finished **top 5** at ECHacks.

FeedUs

Node.js | Angular

- Web application that connects people while recommending nearby restaurants based on food preferences & geographical location

CatSecure

JavaScript | Python

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

EDUCATION

University of Waterloo, Bachelor of Applied Science - 3A Computer Engineering

2016 - 2021