

# Jeff Ma

2B Computer Engineering

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	Coding Languages	Software Tools / Frameworks
Proficient in	HTML, CSS, JS, PHP, SQL, C++	React, Redux, Git, Laravel
Experienced in	SASS, TypeScript, Python, Swift, C, Java, MATLAB	Material UI, jQuery, Bootstrap, Jenkins, Bash, PostgreSQL, SQLite, Pandas, Scikit-learn, ROS, Arduino

## JOB EXPERIENCE

### Web Developer (Full Stack)

May 2020—September 2020

Horizon Studios Inc.

- Built an embedded form for providing feedback to course demos using **React**, **Redux**, **Laravel** and **MySQL**, and used **SASS** and **Material UI** for responsive design and easy accessibility
- Resolved 100s of diverse JIRA sprint tickets, with tickets ranging from quality bug fixes such as UI refactoring to feature enhancements such as better report generation with MySQL, resulting in an improved user experience
- Documented code and wrote wikis on coding procedures, and created lessons on standard development processes using slides and videos to reduce onboarding time by 1 week

### Full Stack Developer and I.T. Support

September 2019 – December 2019

Environment and Climate Change Canada — Downsview

- Designed a full stack automated **CSV** data exporter (**HTML**, **CSS**, **JS**, **jQuery**, **Bootstrap**, **PHP**, **PostgreSQL**), reducing errors and consolidating data into reports 90% faster
- Refactored a previous website using **Bootstrap** to add responsiveness and **jQuery** to integrate asynchronous server requests, improving the coding structure and website UI

### iOS Mobile Developer

January 2019 – April 2019

Startuptive Inc.

- Developed an iOS mobile application prototype using **XCode** and **Swift** to demonstrate the feasibility of an integrated system allowing owners to register appliances and manage which users use them
- Designed code using the **model view controller (MVC)** principle to ensure good design clarity and structure, using **SQLite** as the data model and using **Postman** and **JSON** to communicate with the server API

## PROJECTS

### Web Developer — Waterloop

January 2020—August 2020

- Developed front-end marketing website using **React** and **TypeScript**, and designed minimalistic pages with **Figma**
- Designed responsive components, providing others with assets to assemble web pages more conveniently

### HackTheNorth (CloudPickup) — University of Waterloo

September 2018

- Designed AI for a virtual robot using an unsupervised **Machine Learning** model through **Python's Scikit-learn**, demonstrating the automation of litter collection to reduce carbon footprints on the environment

### Python Workshop — Ryerson University

April 2018 – May 2018

- Created a program to process and extract the tone of tweets with **Python's Natural Language Toolkit Library**

### Arduino Workshop — Ryerson University

April 2018 – May 2018

- Constructed an **Arduino** mini car using an accelerometer, servo motors, and an **Internet of Things (IoT)** interface chip as the car's remote control

## EDUCATION

### University of Waterloo—Computer Engineering

Candidate for Bachelor of Applied Science

CGPA: **89.15/100 (Dean's List for All Terms)**

September 2018 – April 2023

### Ryerson University—Computer Engineering

Candidate for Bachelor of Engineering

CGPA: **4.27/4.33 (Dean's List for All Terms)**

September 2017 – April 2018

- Currently taking courses in **Signals and Systems**, and **Systems Programming and Concurrency** using C