

Tyler Chen

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Skills

- **Languages:** Java, Python, R, HTML, CSS, JavaScript, SQL
- **Tools/Libraries:** Angular, React, Node, Express, Spring, Firebase, Maven, Git, Bootstrap, Jira

Employment

Full Stack Developer

May 2019 - Aug. 2019

ONTARIO MINISTRY OF GOVERNMENT AND CONSUMER SERVICES

- Developed **Material** front-end components and their back-end functionality through a **Java REST API** for the Ministry's **Angular** platform used to manage the **transfer payments of the province**
- Single-handedly built and integrated a new framework to actively **manage and automate asynchronous processes** using Java, Spring, and Oracle Database
- Developed **data models** and expanded a Java REST API to support the generation and download of audit reports

Projects

Peekaboo

REACT, NODE, EXPRESS, POSTGRESQL

- Built a responsive, single page web application using React, Node, and Express that recognizes and identifies faces in uploaded images
- Developed a RESTful API that works in conjunction with a relational database designed with PostgreSQL to drive user registration and authentication

Oregano

ANGULAR, FIREBASE

- Built a responsive, single page recipe management web application using Angular to enable users to create, edit, save, and delete recipes
- Implemented user authentication and managed the storage and retrieval of recipes and user data with Firebase

Budget Boxhead

PYTHON

- Created a 2D shooter game with custom sprites and animations using Python and the Pygame library
- Implemented various Object-Oriented Programming fundamentals such as the design of each sprite class with differing methods
- Designed game logic to challenge players with more difficult enemies and reward them with power-ups as the game progresses

StarterHacks 2019 - QuickSense

HTML, CSS, JAVASCRIPT, BOOTSTRAP

- Built website using HTML, CSS, and JavaScript while using Bootstrap for speed and efficiency
- Assisted in the development and pitch of QuickSense, a device that uses machine learning and object recognition through OpenCV to assist the visually impaired in the retrieval of essential items

Extracurricular Activities

Waterloo Formula Electric - Operations Sub-Team

Sep. 2018 - May 2019

PROJECT MANAGER

- Provided planning and logistical support to manage projects initiated by the Electrical sub-team
- Managed team website, providing maintenance and updating relevant sections when necessary
- Performed marketing duties such as the design of posters; designed and sourced suppliers for team polo

Education

University of Waterloo | Honours Management Engineering

B.ASC CANDIDATE, 2018 - 2023