Michael Li

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⌂ https://github.com/michael-li47 | Website: https://michael-li47.github.io/

Summary of Skills

Languages: Python, Javascript, C, Scheme, HTML, CSS, Bootstrap
Tools & Technologies: Git, React, NodeJS, Selenium, MS Office

Work Experience

University of Waterloo   **Waterloo, ON**
Research Assistant   August 2017 – March 2018
Lawn Weed Removal Robot Software:

- Collected and **annotated 2000+** pictures to build a database of training cases for a **TensorFlow** based **neural network**.
- Each weed captured in the photo was indicated with a bounding box and the bounds were recorded on **JSON files**.
- Coded the communication process between an **Arduino** and **Raspberry Pi** using **serial communication**.
- Neural net achieved **90%+** accuracy rate when identifying common lawn weeds.

Bioinformatics Solutions Inc.   **Waterloo, ON**
QA Engineer   May 2020 – August 2020
PEAKS (Protein identification/quantification software):

- Worked in a team to test for bugs and refine the product to improve user experience.
- Coded auto tests for front-end functionalities of the product in **JS**, using **Selenium**.
- Worked closely with dev. team to discuss expectations and improvements in the code.
- Prepared **test plans** for the testing team and **documentation** for the user manual.

Projects

Personal Website (HTML, CSS, Bootstrap, Javascript)

- Responsive website hosted by GitHub, created with **HTML5**, **Bootstrap4** and **CSS**.
- Multi-page website hosting personal info, contact info, and staging projects.
- Embedded **Javascript** scripts improve user experience with refined UI.

Food Tracker (Javascript, React, NodeJS)

- **React** app, created in **NodeJS** environment, that counts total nutrient consumption of selected foods (calories, protein, carbohydrates, fats, etc).
- Converted online food data spreadsheet into **Javascript** format to use as database.
- Table of foods allows for selection of foods, calculates the nutrient consumption, and displays the total in the table footer.

EDUCATION

University of Waterloo   **Waterloo, ON**
Candidate for Bachelor of Mathematics   Expected April 2023
Sir John A. Macdonald Secondary School   **Waterloo, ON**
High School Diploma   Sept 2015 – June 2019