Victor Wang

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Skills

- **Languages**: JavaScript, Python, Java, C, Haskell
- **Concepts**: Machine Learning, Functional Programming, OOP, MVC, REST APIs, JSON
- **Tools/Technologies**: Git, Tensorflow, Scikit, MongoDB, SQL React, Flask, Express, Swagger, Vim, Linux

Experience

- **DragonSoft Digital - DragonAgile** Waterloo, Canada — 2020
  Software Development Engineer
  - Developing, testing, and deploying Atlassian Cloud Add-Ons for Jira Software and Jira Service Desk
  - Created continuous deployment pipelines from a Bitbucket repository to an AWS EC2 instance to increase deployment velocity by almost 200%.
  - Designed and implemented several new pages on the DragonAgile main website that handles RBAC.
  - Added live chat functionality to enable two way communication between a potential client and a help desk agent from the company to allow help desk agents to hit SLAs almost 100% of the time.
- **SET (Students for Engineering and Technology) Foundation** Ottawa, Canada — 2018 - Present
  Head of Logistics, Board of Executives
  - Created, deployed and maintained the SetHacks website.
  - Organised events, facilitated communication between team leads and developed a schedule such that different events could run smoothly.
  - The SET Foundation is a student-run registered non-profit organisation that promotes and teaches youth about the opportunities available in engineering and technology fields through yearly conferences and hackathons.

Projects

Robotics Match Predictor - *Python, Tensorflow, Scikit, Pandas*
- Selected, implemented and optimised numerous models to predict the outcome of VEX Robotics Matches with a final success rate of about 80%.
- Fetched, parsed, formatted and analyzed match and team data from VEXDB (a Vex Robotics database).
- Utilised by VEX team 2381 to halve their scouting team by reducing the number of potential teams to analyse.

Wikipedia Article Generator - *Java, Python*
- Developed a machine learning program that can generate sentences using an N-Gram language model in Java.
- Used a combination of hash tables and a custom implementation of tries for faster lookup times when compared to more traditional approaches.
- Trained my language generation model by using Python to acquire and parse JSON formatted plain text from Wikipedia obtained through the MediaWiki API.

Intruder Detector Security System - *Python, OpenCV, MongoDB, Arduino*
- Created a security turret using Python and openCV to analyse video input to recognise and repel intruders.
- Triangulated position of intruder using image processing and facial recognition libraries. Controlled turret using an Arduino and stored user facial information using MongoDB.

Education

- **University of Waterloo** Waterloo, Canada — 2019 - 2024
  Bachelor of Computer Science, Honours (93% average)

Awards

- **Tournament Champions** Vex Robotics Competition - Terrebonne
- **Excellence Award - Best Overall Performance** Vex Robotics Competition - IDesign Central Toronto
- **2nd Place** Don Mills Programming Gala-Gold Level: Local