

RAY LI

✉ ruizhe.li@uwaterloo.ca in ray-ruizhe-li 🌐 rayruizheli </> devpost.com/rayruizhe

SKILLS

Languages Python, C++, Java, SQL, JavaScript, HTML, CSS
Tools & DB Postgres, MySQL, Kubernetes, Docker, Git, AWS
Frameworks React, Node.js, Flask, REST, ROS

EXPERIENCE

Auvik Networks, DevOps Engineer May – Aug 2019

- Built engineering support tools using **Flask** in **Python**, **React** for front-end, and **PostgreSQL**.
- Configured and deployed websites and microservices on **Kubernetes** container orchestration system.
- Applied **recursive algorithms** to disable and reactivate tenants stored in a **NPL database**.

WATonomous, Team Captain, Path Planning Core Member Sept – Dec 2019

- Managed **100+** software, electrical, mechanical, and business students toward transforming a Chevrolet Bolt into a **level 4 autonomous vehicle** according to SAE standards.
- Conducted **real world testing** at Waterloo's WRESTRC test track every second week of the month.
- Implemented **pedestrian avoidance logic** at through state machines using **C++** and **ROS**.

Intelliculture, Web Designer Oct – Dec 2018

- Rebuilt and redesigned the company's website using **HTML**, **CSS** and **React**.
- Assisted in designing Intelliculture's first minimum viable **farm vehicle tracker** using mockup tools.

Wuhan University of Science and Technology, Research Assistant Jun – Aug 2018

- Gained experience on **Machine Learning** from graduate researchers through **Python**.
- Translated **academic research papers** for the Information Technology Computer Lab.

SELECTED PROJECTS

AR Hand Sign Hologram Projector, Hack the North University of Waterloo · Sept 2019

- **Winner** of Hack the North 2019 and **winner** of The Voiceflow API challenge out of **1,500+** contestants.
- Built a hologram projector that projects animations on action figures based on hand sign recognized through the web cam using **Kira**, **Flask framework**, **React**, and **the Voiceflow API**.

GarbaDoor: Automated Trash Can, YHacks Yale University · Oct 2019

- **Winner** of The Google API Challenge at YHacks.
- Constructed a smart trash can that automatically sorts objects and generate data on compost, recycle, trash for the city using **Google Firestore**, **Google Vision**, **Flask**, **Python**, and **Arduino**

Anime Social App, HackHarvard Harvard University · Oct 2019

- Developed a **website** that connects anime fans across the world based on their taste of anime.
- Built using **Django** for backend, **React** for frontend, and uses **Kitsu-API** for anime-related data.

EDUCATION

University of Waterloo, Bachelor of Computer Science Sept 2018 – Apr 2023

INTERESTS

ECR Yoyo Competition, Finalist · 9th Place Toronto May 2018

Canadian Yoyo Competition, Sports Ladder · 2nd Place Toronto May 2016