Yifei Zhang

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SKILLS

- **Languages:** JavaScript, C++, Python, C, Java, SQL, HTML, CSS (SASS), Bash
- **Tools:** React, Redux, Node.js, Docker, Git, MongoDB, PostgreSQL, Jenkins, Terraform, Microsoft Azure, GCP

EXPERIENCE

Software Engineer – Altis Labs   Sep 2020 – Dec 2020

- Spearheaded development of a comprehensive platform for radiologists to evaluate tumour response to clinical treatments, following internationally established guidelines
- Built an interactive interface using **React/Redux** to guide radiologists through the workflow, with dynamically enforced rulesets and custom-built tools to automatically measure and segment a lesion
- Designed additional **PostgreSQL** schemas and **Node.js** REST APIs to store patients' medical data

Vice President (Lead Developer) – Flatten || github   Mar 2020 – May 2020

- Led development of flatten.ca, a non-profit that gathered crowdsourced COVID-19 data to aid public health bodies in Montreal and Somalia, receiving media coverage from **CTV**, the **National Post**, and **Global News**
- Worked with multidisciplinary group of developers, doctors, clinicians, and received guidance from Google engineers/product managers and Cossette designers to generate over **500,000 user responses**
- Built platform using **React/Node.js**, setup infrastructure, code review guidelines, and CI/CD pipelines

Dev Ops Software Engineer – The Co-operators   Jan 2020 – Apr 2020

- Automated infrastructure provisioning requests using **Terraform** scripts, cutting response times by 32%
- Introduced automated testing into the development pipeline using **Mocha/Chai** and **Jest**
- Began development of an application that abstracts **Jenkins** interactions for developers

Applications Developer – Ontario Institute for Cancer Research   May 2019 – Aug 2019

- Implemented a centralized logging system using the **Elastic stack** that parses and sends over **76000 log messages** monthly from various Node.js APIs, and established automatic notifications for critical errors
- Built front-end components using **React** and **Jekyll** and conducted end to end testing for *Adaptive Oncology*
- Wrote **bash** scripts that verified environment configurations during build, reducing build errors by **12%**

PROJECTS

London Bridge – devpost || github   Nov 2019

- Developed a portal that accepts maintenance requests for London's public infrastructure and automatically notifies councillors based on a priority system, winning **3rd place** at **Hack Western 2019**
- Used city of London's open data portal to generate a heatmap of maintenance requests

Wizarding Chess – devpost || github   Sep 2018

- Programmed virtual reality chess game with **C#** and **Unity**, winning **Hack the North 2018**
- Integrated IBM Watson's speech-to-text API for voice-controlled gameplay

EDUCATION

University of Waterloo – Bachelor of Software Engineering   2018 – 2023

- Spring 2020 Term Dean's Honour List || **Relevant Courses:** Data Structures & Data Management, Software Engineering Principles, Database Management, Algorithms (In Progress), Operating Systems (In Progress)