Alvin Tang

alvin.tang@mail.utoronto.ca • alvintang.me • github.com/alvintangz

EDUCATION

Honours Bachelors of Science   *Pending Graduation November 2021*

Computer Science - Software Engineering, University of Toronto

Activities and Societies: Dragon Boat Member • Project Include Instructor • LIVE Competition Vice-President of Information Technology (Previously Full Stack Developer)

EXPERIENCE

Lead Developer, Vaccine Hunters Canada   *Toronto, Apr 2021 - Jun 2021*

- Contributed to a vaccine searching tool that has had over **two million** unique uses to date
- Formed a team of several volunteer developers to work on a administrative CLI built with **Golang**

Vice President of Information Technology, LIVE Competition   *Toronto, Mar 2019 - Feb 2020*

- Led and taught a team of **eight** student developers to help build a digital platform for a business case competition, with over **200 RESTful APIs** built with **Django** and consumed by **Angular**
- Established **PayPal Checkout** for registration on the platform, handling over **25k** in delegate fees
- Developed a **NodeJS** microservice which broadcasts messages with **WebSockets** while utilizing **Celery** with **Redis** for queuing messages, deployed with other services in a **Kubernetes** cluster

Software Developer Intern, OpenText   *Richmond Hill, May - Dec 2019*

- Built and presented a **React** demo app with a **JavaScript** preview SDK showcasing OpenText's SaaS solutions and potential SDKs to consumers and partners at Enterprise World 2019
- Created an **Angular** project and updated multiple **Spring Boot** microservices to provide a gateway for admins to manage developers and documentation on OpenText's OT2 SaaS management platform
- Improved continuous integration and deployment methods through **Jenkins** for multiple projects, utilizing **Docker Compose**, **Cloud Foundry** and **Kubernetes** for deployment

PROJECTS

CanVote | github.com/alvintangz/canvote

Collaborated with two others to create an online voting web application for Canadian elections. Utilized **React** for the front-end, with back-end microservices that exposed **GraphQL** and **RESTful** web APIs.

Mr Teleporter | github.com/alvintangz/mr-teleporter

Implemented a web application to be used with a VR headset to teleport a user to a specified location on Google Maps through Google Assistant. Used HTTP Polling with an **ExpressJS** server and **DialogFlow** for natural language processing.

Shorten | atng.me (inactive)

Built a URL shortener that shortens links for a period of time specified by the user. Utilized **jQuery** for the front-end, **PHP** for the back-end with **MySQL** and **Apache** on AWS Lightsail for deployment.

TECHNICAL SKILLS

Languages	HTML/CSS, Python (expert); JavaScript (proficient); Java (experience)
Frameworks and Libraries	Angular; React; jQuery; Django; Spring Boot; Express.js; ws; Celery
Deployment	Kubernetes; Docker Compose; VMs on AWS, Azure, DigitalOcean
Others	Jenkins; Azure Pipelines; MongoDB; PostgreSQL; Redis