

# Ryan Liu

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## WORK EXPERIENCE

### A Thinking Ape

Software Engineer (I & II)

Vancouver, BC (Remote)

Feb. 2020 - Apr. 2024

#### Platform

- Architected and built a new microservice to prevent primary key collisions during data, reducing the number of support requests by 15%
- Upgraded CI/CD pipelines by implementing canary deployments using Nomad to route a small percentage of requests to a subset of containers to reduce severity of broken deployments
- Optimized execution time of test environment by leveraging python multiprocessing across a suite of Jenkins executors, resulting in a decrease of mean time to test by 3x, leading to faster total deployment time
- Led the creation of internal platform tools and infrastructure to migrate local and production environments to Docker by building microservice-based images and leveraging Docker Compose and Nomad
- Facilitated migration to Apple Silicon based Macbooks by updating internal platform tools and creating all-new ARM64 specific images

#### Full Stack and apps

- Advocated for and implemented security best practices by building v2 of login portal for internal tools, implementing mandatory 2FA and support for OAuth
- Proactively identified pain point in user experience with local Docker environments and created a modern MacOS app using SwiftUI to provide a GUI to non-technical users

## PROJECTS

### ryanliu6.xyz

Personal Website

- Built a lightweight, cross-platform, static website using Astro, React, and Tailwind, leveraging Astro's content-driven principles to translate Markdown files into blog-style pages

### Vigor

Python Library

- Designed small custom Python library to manage Docker Compose files and environments, leveraging Compose's built-in config validation to generate custom compose files

### Focus

Home Server

- Built a collection of self-hosted apps using Docker Compose to serve as my personal multi-media server, using Traefik as reverse proxy to route traffic to containers

## EDUCATION

### University of British Columbia

BASc, Major in Computer Engineering, Minor in Mathematics

Vancouver, BC

Graduated: Jan. 2020

- Graduated with Distinguished Honours

## SKILLS & INTERESTS

**Languages:** Python, JavaScript/TypeScript, HTML/CSS (Tailwind), Swift, SQL, Bash

**Technologies:** Git, Linux, Jenkins, Docker, AWS, CloudFlare, React, Django

**Interests:** camping; reading; painting; model kits; D&D