

# Ryan Liu

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## Work Experience

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### A Thinking Ape

Vancouver, BC

#### Software Development Engineer II - Platform & Full Stack

July 2021 - Apr. 2024

- Architected and built a new microservice to prevent primary key collisions during concurrent data authoring from multiple sources, resulting in a streamlined data authoring process and **15% less merge conflicts**
- 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
- Modernized core parts of internal portal by rewriting CI/CD pipelines using **React** and **Django**, which **reduced load times by 25%**, resulting in a more responsive and maintainable system
- Advocated for and implemented security best practices by implementing mandatory **2FA** and **Oauth**
- Developed a MacOS GUI application to automate setup, management, and updates to development environments for game designers, **reducing maintenance and Git related support requests by over 30%**

#### Software Development Engineer I - Platform

Feb. 2020 - July 2021

- Parallelized test suite execution in **Jenkins** using Python **multiprocessing** to reduce average testing time by 3x
- Led the creation of internal platform tools and **Docker images** to Dockerize Django-based microservices, using **Docker Compose** for local environments and **Nomad** for production environments
- Facilitated migration to Apple Silicon based Macbooks by updating internal platform tools and creating all-new ARM64 Docker images for company's microservices

## Projects

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### [Ena](#) | LLM, Python

Accounting Tool & Website

- Created a Python script to extract transaction data from credit card statements into CSVs, leveraging an **open-sourced LLM (Llama3)** to categorize transactions to better visualize spending habits

### [ryanliu6.xyz](#) | TypeScript, Astro, React, Tailwind

Personal Website

- Built a lightweight, cross-platform, component-first, static portfolio website using **Astro**, **React**, and **Tailwind**
- Used Astro's content-driven principles to translate Markdown content into reusable dynamic components

### [Vigor](#) | Python, Docker, Docker Compose

Personal Website

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

## Education

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### University of British Columbia

Vancouver, BC

Bachelor of Applied Science in Computer Engineer, Minor in Mathematics

2014 - 2019

- Graduated with Distinguished Honours

## Skills & Interests

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**Languages:** Python, JavaScript/Typescript, HTML/CSS (Tailwind), Swift, SQL (MySQL), NoSQL (MongoDB)

**Technologies:** Git, Django, Docker, React, Astro, Node.js, Jenkins, AWS, GCP, CloudFlare

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