

Ryan Liu

ryan@ryanliu6.xyz | linkedin.com/in/ryanliu6 | github.com/ryanliu6

Skills

Languages: Proficient in **Python, JavaScript & TypeScript**, and **HTML**, experienced in **CSS (Tailwind)** and **MySQL**

Technologies: Git, Django, Docker, Compose, React, Node.js, Jenkins, MySQL, Kafka, Redis, AWS, GCP

Other: object-oriented programming, distributed systems, micro-services, REST API design

Work Experience

A Thinking Ape

Vancouver, BC

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

2021 - 2024

- Led a small team of engineers to collaborate with the Product team to design and create tools to prevent and resolve data inconsistencies arising from data authoring, enhancing stakeholder workflows and reducing conflicts by **18%**
- Architected and developed a data management service to prevent primary key collisions during concurrent data authoring from Product team, resulting in **15% less merge conflicts**
- Developed a new multi-processed data test runner in Python, achieving **90% coverage** on game data, catching and reducing human error by **over 50%**
- Modernized the deployment system by rewriting key components using React & Django and creating new RESTful API endpoints, reducing page load times by **up to 25%**
- Upgraded CI/CD pipelines by implementing canary deployments for staging and production environments using HashiCorp Nomad, reducing deployment failures by **23%** and improving confidence in feature testing
- Developed a robust and secure login system for the internal portal by implementing Two Factor Authentication (2FA) and OAuth using React & Django
- Mentored interns and junior engineers, fostering a collaborative learning environment with a 'no bad questions' approach, helping them succeed in their early careers

Software Development Engineer I - **Platform**

2020 - 2021

- Developed a multi-processed unit test runner in Python, reducing average testing time across all services by **3x**
- Led the design and development of core platform CLI tools and Docker images to manage and deploy Django-based micro-services, migrating to Docker Compose for local and HashiCorp Nomad for production environments
- Led the development of new tools and Docker images to migrate all users to Apple Silicon based Macbooks, resulting in a seamless transition with **0 issues across all engineers and game designers**

Projects

[Ena](#) | LLM, Python

Accounting Tool & Website

- Created a CLI tool in Python to extract transaction data from credit card statements into CSVs, leveraging Llama3 to categorize transactions to better visualize spending habits, resulting in an average decrease in spending of **35%**

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

Personal Website

- Built a lightweight, cross-platform, component-first, static portfolio website using Astro, React, and Tailwind

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

Personal Website

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

Education

University of British Columbia

Vancouver, BC

Bachelor of Applied Science in Computer Engineer (Honours), Minor in Mathematics

2020