# Ryan Liu

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## WORK EXPERIENCE

**A Thinking Ape**                                                                                          **Vancouver, BC**
*Software Development Engineer (I & II)*                                              *Feb. 2020 - Apr. 2024*

### *Platform*

- Architected and built a new microservice to prevent primary key collisions during concurrent data authoring from multiple sources using user generated strings, 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

- 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

### *Full Stack and apps*

- Advocated for and implemented security best practices by implementing mandatory 2FA and internal 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%

## PROJECTS

**Ena**                                                                                          *Accounting Tool (Python)*

- Extracts and converts transaction data from credit card statement PDFs into CSVs using Regex; Categorizes transactions using open-source LLM to better visualize spending habits

**ryanliu6.xyz**                                                                                          *Personal Website*

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

**Vigor**                                                                                          *Python Library*

- Manages Docker Compose environments using Python subprocesses to interface directly with Compose

## EDUCATION

**University of British Columbia**                                                                                          **Vancouver, BC**
*BASc, Major in Computer Engineering, Minor in Mathematics*                              *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