

YU LONG

long_yu@berkeley.edu | (341)766-8427 | Berkeley, CA, 94703 | www.linkedin.com/in/yu-long | reimirmo.github.io

EDUCATION

University of California, Berkeley

Aug 2021 – May 2024

Bachelor of Science in Electrical Engineering and Computer Sciences (EECS)

GPA: 3.99/4.00, Dean's List, Honors to Date

Relevant Coursework: Operating System, Database System, Computer Security, Data Structures, Algorithm, Software Engineering, Machine Structure/Computer Architecture, Discrete Mathematics, Multivariable Calculus, Optimization Models, and more.

SKILLS

Languages/Formats: C#, JavaScript/TypeScript, Python, Golang, Java, Rust, C, HTML/CSS, Ruby, MATLAB

Frameworks/Tools: T3 Stack/NextJS, Unity, Express, React/Redux/RTK, Docker/Kubernetes/Terraform, FastAPI, AstroJS, Spring Boot, Sql/NoSql (Mongo, Postgres, MySQL, Supabase/Firebase), AWS/GCP/Alicloud/various cloud services (compute, storage, db, k8s etc), MapReduce, Jenkins, Ruby on Rails, Postman, Cypress, Puppeteer, Storybook, Bootstrap, Tailwind, LaTeX....

Non-technical: AGILE Workflow, working in/leading teams, teaching, organizing large events (300+), Media skills.

WORK EXPERIENCES

[More projects, and full work experiences available on my website.](#)

Citadel Securities

Software Engineer Intern June 2024 – Aug 2024

- NDA engineering project on a unified cloud developer workspace solution and its relevant tooling for across the firm.

PayPal

Software Engineer Intern May 2023 – Aug 2023

- Taking the lead in the design and development of a full-stack PayPal Merchant Partner Product quality suit that stores, filters and visualize product quality for various PayPal partners including Meta and Shopify across diverse countries, facilitating data-driven decision making, using latest stacks like **Raptor**, **NextJS**, and **Spring Boot**.
- Spearheaded the development and implementation of an innovative framework that integrates **Jenkins** jobs with **TestRail**, providing a fully seamless and automated framework to replace the cumbersome manual tests flow, significant boosting overall productivity.
- Pioneered a live issue project that uses both traditional ML approaches and the latest **LLM** technologies (Meta's **Llama**) that summarizes and identifies general patterns in live issue reports, empowering the team to discover and address problematic areas (e.g., webhooks).

Epicomic Cultural Diffusion

Software Developer & DevOps Apr 2021 - Present

- Led and successfully launched a commercial game in **Unity** (Sold over 100,000 copies on [Steam](#)) that supports 3-language localization, Steamworks Cloud Storage, keyboard/controller support, 50+ equipment, 30+ characters, 10+ dungeons and 6 DLCs.
- Scoped, researched, designed, and launched a whole set of player data API backend with **Alibaba Cloud** and **AWS services** (serving player authentication, achievement tracking, score, leaderboard, inventory, trophies, etc.) that could be used in all games of our studio and works cross-platform (Desktop, Nintendo Switch, PlayStation), serving players globally.
- Engineered UDP networking for Unity games using **Mirror Networking**, hosting and maintaining 10+ match making servers and relay servers around the globe, enabling low-latency matchmaking, and real-time multiplayer state synchronization.
- Initiated game performance optimization efforts and transformed asset management using techniques including **draw batching**, **texture atlas**, **async loading**, leading to substantial memory savings of 2x-4x across multiple projects.

Coffee Tea, Inc.

Co-Founder & Technical Lead Oct 2022 – Dec 2022

- Initiated a social platform democratizing college application industry by allowing applicants connect to college students via coffee chat.
- Studied competing product, architected the rendering & networking stacks in **Unity** for developing a metaverse chat product with VR.
- Lead a team of 4 engineers to design, develop and document a full set of backend REST API using **FastAPI**, **Poetry**, **Alembic** and **PostgreSQL** following best practices, including modules like authentication, profile management, recommendation, payment and etc.
- Built and deployed a containerized monorepo architecture with full CI/CD pipeline using **Docker**, **Pytest with coverage**, **Github Action**, **Vercel** and various **AWS products (Elastic Beanstalk, RDS, S3, Lambda and SES)**.
- Oversaw and worked with a contracted engineer to develop a frontend and communicated between engineers and the UI/UX team.

LEADERSHIP/RESEARCH EXPERIENCES

Undergraduate Student Instructor (TA)

UC Berkeley Electrical Engineering & Computer Sciences. Jan 2022 – May 2024

- Serve in CS169 (Software Engineering) starting from fall 2023, and in CS70 (Discrete Maths and Probability Theory) since Spring 2022, hosting discussion sessions with 30+ students several times per week, 2 office hours per week, driving homework/exam creation.

Research Assistant

UC Berkeley Electrical Engineering & Computer Sciences. Sep 2021 – May 2022

- Parallelized a visual correcting display algorithm in two ways: using OpenCL and using OpenCV parallel-for, with 2x runtime gain.
- Prototyped and built an Android app by porting native C++ codebase to Java, allowing algorithm benchmarking on lower-end devices.