

Xiangyi Li

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EDUCATION

San Jose State University
M.S. in Computer Science

San Jose, CA
Sep. 2023 – Jun. 2025

The Chinese University of Hong Kong, Shenzhen
B. Eng. in Computer Science and Engineering

Shenzhen, China
Sep. 2019 – Jun. 2023

Core Courses: Programming Paradigms, Data Structure, Operating System, Computer Architecture, Database Systems, Cloud Computing, Parallel Programming, Deep Learning and Applications, Software Engineering,

WORK EXPERIENCE

Dolby

Software Engineer Intern

Shenzhen, China
Feb 2023 – Apr 2023

- Implemented **Windows** SDKs in **C#** with **.NET Core** framework for generating PC color profile files to provide Dolby Vision support. Impacted **>200** PC manufactures and designers producing **>500k** laptops annually.
- Implemented **RBAC** (Role-Based Access Control) in the web portal with **ASP.NET Core** that enabled customers to make customized color profile generation workflows with previously mentioned earlier. Used file systems and **MySQL** database for storage.
- Replaced broken **Bootstrap** styling with **CSS** improving customer's satisfaction. Majorly improved the page including page refreshing strategy, data fetching strategy, and removed data leaking with **jQuery**. Implemented two-way communication with **SignalR** to add real-time update on task status.
- Collaborated with on-site engineers, product manager, and UX designers to collect customers' complaints and requests to **transform** customers' complaints and **needs** into **engineering features**.
- Involved in building **software releasing lifecycles environments** including Dev and QA on Windows **Internet Information Services (IIS)** collaborating with software engineer in tests.

Red Hat

Software Engineer Intern

Shenzhen & Beijing, China
May 2022 – Nov 2022

- Implemented scripts in **Golang** to automate **K8s** APIs that are used in half new features in two future releases.
- Built OpenShift Console Plugins with **React** and **TypeScript** that impacted two releases, thus improving the visibility for users of the Dynamic Plugin feature, which is one of the major updates of the next release.
- Developed tests in **Cypress** for **React OpenShift** web console; developed **BDD** scripts in Ruby and Gherkin for earlier features' test coverage. Extended **Cypress** API in **TypeScript** for **hovering** and real **clicking**.
- Contributed to **OpenShift** verification tests project; responsible for debugging **Jenkins** CI, fixing **Ruby** scripts. Set up **AWS** networking configurations like DNS record types and **RBAC** for setting up integration test.
- For developer experience, built and deployed a **"real-time"** online collaborative editor in **React** and **SQLite**.

PROJECTS

Ask Abe AI: <https://ask-abe-beta.vercel.app/>

Sep. 2023 – Oct. 2023

- Built an interactive law answering and document template generation with GPT-4 & RAG on pgvector (HNSW).
- Built the front-end UI and backend streaming and querying with React, TypeScript deployed on Vercel.
- Scraped multiple states law data, splitted and implemented Neo4j graph structures for better retrieval.

PadCoder github.com/l1xiangyi/PadCoder

Jan. 2023

- Built an iPad LeetCode grinding app with **React Native** and **TypeScript**; involved with design using **Figma**.
- **Sold to a startup** by my collaborator; only an NDA compliant version is available online.

Kanban Minimal: trello-minimal-csc4001.web.app/

Apr. 2022

- Implemented Drag-and-Drop components with **Angular CDK** and common Angular Material components.
- Implemented the backend with **Nest.js** and **Google Cloud Run**. Designed **Data modeling** and complex writes/queries with **Firestore**. Implemented Google and Email auth with Firebase Auth.

CS Foundations: Check out my read.cv/ [xdotli](https://xdotli.com/) for more projects in OS, computer arch, DB, and Distribute Computing.

SKILLS

Programming Languages: JavaScript, TypeScript, Python, C++, C#, Java, Golang

Framework: React, Angular, tRPC, Next.js, Nest.js, ASP.NET Core, .NET Core

Professional Software: AWS, GCP, Kubernetes, Docker, Jenkins, Git, GitHub Actions. MySQL, PostgreSQL, MongoDB, Firebase, Supabase. TensorFlow, PyTorch, NumPy, Dask.