Xiangyi Li

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EDUCATION

San Jose State University   **San Jose, CA**
M.S. in Computer Science   Sep. 2023 – May 2025

The Chinese University of Hong Kong, Shenzhen   **Shenzhen, China**
B. Eng. in Computer Science and Engineering   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   **Shenzhen, China**
Software Engineer Intern   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. Used file systems and **MySQL** database for storage.
- Led refactoring the support portal's UI utilizing modern CSS and jQuery to align with company's styling guidelines. Leveraged SignalR communication to add real-time updates to site users.
- Collaborated with on-site engineers, product managers, and UX designers to collect customer feedback and transform it into **engineering features**. Resulted in significant customer satisfaction.
- Took ownership for building environments for dev, QA, preview, and release from the DevOps dept with IIS.

Red Hat   **Shenzhen & Beijing, China**
Software Engineer Intern   May 2022 – Nov. 2022
- Implemented Go scripts and YAML to automate Kubernetes APIs for new features in two future releases.
- Built OpenShift Console Plugins utilizing React and Typescript improving visibility for users of the Dynamic Plugin feature shipped in 4.12 and 4.13. They are also used in a range of test cases for the QA team.
- Developed tests in **Cypress** for **React OpenShift** web console; developed **BBD** 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

Better Diffusion - WIP, but check xiangyi.li for updates   Oct. 2023
- Scrapped, cleansed, and applied **NLP techniques on** Midjourney's prompts on Discord for **fine-tuning GPT3.5**.
- Generate many prompts based on phrases and let users choose one to generate image with **stable diffusion**.

Ask Abe AI - 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, split it, and implemented **Neo4j** graph structures for better retrieval.

PadCoder   github.com/l1xiangyi/PadCoder   Jan. 2023
- Developed an iPad LeetCode practice app with **React Native** and **TypeScript**; involved with design using **Figma**.
- **Sold to a startup** by my collaborator, so only an NDA compliant fork is available online.

Kanban Minimal: trello-minimal-csc4001.web.app/   Apr. 2022
- Implemented Drag-and-Drop components with **Angular CD**K 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 for more projects in OS, computer arch, DB, and Distributed 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. (Machine Learning projects see my read.cv/xdotli)

Personal: High school track and field team 18-19. College basketball team 19-20. Made slides for major events in college.