Lilly Liu
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Intro

I am a customer-focused software engineer who's worked on driving adoption of AI and developer productivity tools at a fast-paced startup. I've spent a lot of time identifying slowdowns, leading org-wide initiatives, working directly with vendors and leadership--and getting my hands dirty building scalable solutions that help both technical and non-technical teams move faster. I enjoy being an engineer who connects other engineers, product, and leadership!

Education

University of California, Berkeley | Double Major in Data Science and Economics *May 2024*

- Activities: Drawn to Scale A Cappella (President), CalHacks, Association of Women in Engineering, Data Discovery Research Program, Big Data @ Berkeley, Sustain Point Consulting, AFX Dance

Fudan University | Study Abroad Program in Information and Computer Science *August 2023 - December 2023*

Work Experience

Software Engineer, Cloud and AI Productivity — Cambridge Mobile Telematics *August 2024 – Present*

- Built and led adoption of a standardized backend build and CI/CD platform across the **entire backend**, unifying per-service scripts into a self-service workflow and standardizing Docker and Jenkins pipelines, reducing new service setup time **from days to hours** and improving build reliability.
- Proactively identified PR review latency as a major developer productivity bottleneck and initiated an AI-powered pull request reviewer program, serving as technical lead for 4 cross-company pilots, **negotiating directly with vendors**, and reducing PR review cycle time by ~8 hours across all dev teams.
- Selected by leadership as **1 of 3 founding engineers** to build a new AI Native team following the success of the AI PR reviewer initiative, leading company-wide enablement and standardization of AI coding tools and increasing adoption from **75% to 95%**.
- Designed and built internal AI productivity tools, including a **Text-to-SQL bot** enabling safe, conversational database access for non-expert users, used by product leadership to answer routine data questions without relying on analyst support.
- Architected a conversational MCP-based orchestration platform that simplified deployment of AI tools, enabling multiple internal use cases, including an IRT helper chatbot integrating Jira, Confluence, and GitHub to support engineers during live incidents when the incident commander was unavailable.

Software Engineering Intern — Brown Brothers Harriman & Co. *June 2023 – September 2023*

- Refactored a financial web application from JSP to Angular and Spring, improving page load time by 40%.

Software Engineering Intern — BAE Systems *June 2022 – September 2022*

- Built internal frontend features using TypeScript and REST APIs.
- Earned internal company award for organizing and leading the annual Bike Drive fundraiser.

Head Tutor and Course Liaison — UC Berkeley Student Learning Center *January 2022 – December 2022*

- Provided tutoring for hundreds of college students in Macroeconomics, assisted in the preparation and facilitation of exam reviews and tutoring material, utilized a variety of teaching methods to ensure student comprehension.

Academic Intern — UC Berkeley Division of Computing, Data Science, and Society *January 2021 - December 2022*

- Answered questions about lab/lecture content for UC Berkeley's Foundations of Data Science course (Data 8).

Projects

Build Your Own World | Java

- Created an engine for generating explorable worlds in 3000 lines, similar to the tile-based game Brogue.
- Used Disjoint Sets data structure in order to successfully connect rooms and hallways.

BearMaps | Java

- Combined data structures (KD-trees, Extrinsic MinPQ) and A*algorithm in order to implement a web-browser mapping application called BearMaps. Built an artificial intelligence that can solve arbitrary state space traversal problems using A* algorithm. Wrote original timing and logic tests.

Skills: Python ▪ SQL ▪ AWS ▪ Docker ▪ Jenkins ▪ DataDog ▪ LangGraph/LangChain ▪ MCP Servers ▪ Slack Bolt ▪ React ▪ Scikit-Learn ▪ Tensorflow/Keras ▪ Git ▪ Figma ▪ Atlassian

Certifications: CodePath Advanced Software Engineering 2022, Deeplearning.AI Tensorflow Developer 2024

Interests: Customer Solutions ▪ Financial Tech ▪ Full-stack Development ▪ Artificial Intelligence ▪ Product Management ▪ Leadership ▪ Music ▪ Movies ▪ Singing ▪ Cooking