Leon Liu

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EXPERIENCE

Siemens Healthineers — Palo Alto, CA
Software Development Engineer — *February 2023 - Present*

- Developed internal tooling combining Playwright-based frontend automation and Python backends.
- Unified logging and dashboards across systems using Syslog and custom UIs.
- Created a BERT-based internal code search assistant used by automation developers.

Nesh (Startup) — Houston, TX
Machine Learning Software Engineer Intern — *April 2022 - August 2022*

- Built and deployed full-stack features across RESTful services and ML-powered interfaces.
- Streamlined inter-service communication and data pipelines across backend microservices with node.js.
- Optimized document ranking by integrating image heuristics, improving targeted search relevance by 70%.

Rocket Mortgage — Detroit, MI
Machine Learning Intern — *May 2021 - August 2021*

- Developed backend models and contributed to frontend dashboards for user sentiment and survey analysis.
- Collaborated with full-stack engineers to integrate feedback systems into production tools.

Berkeley/NASA Autonomous Vehicle Research — Berkeley, CA
President — *September 2020 - June 2021*

- Led a 30-person cross-functional team in developing autonomous vehicle tech for NASA astronaut rescue missions.
- Directed fundraising, electrical design, and software integration, successfully advancing prototype development.

PROJECTS

Fyts — Present

- Designed end-to-end architecture including React Native frontend and FastAPI backend with Firebase.
- Built wardrobe tagging features and integrated calendar and weather data sources to support outfit planning.

Job Hunter — Present

- Built the frontend using React and backend with FastAPI to manage job applications and user data.
- Integrated Google Sheets APIs; implemented AI models using CrewAI for resume analysis and mock interviews.

Tile Heights — December 2024

- Built a full-stack e-commerce site with Next.js and MongoDB; implemented Google OAuth and admin dashboard.
- Designed responsive UI with Tailwind and built secure backend endpoints for product management and orders.

SKILLS

- Fullstack: React, Next.js, FastAPI, Node.js, MongoDB, PostgreSQL, Firebase, REST APIs, OAuth
- Frontend: React Native, TypeScript, Tailwind, Chrome Extensions
- DevOps & Cloud: Docker, AWS EC2, Vercel, CI/CD (Jenkins, GitHub Actions)
- Machine Learning: CrewAI, LangChain, OpenAI, BERT, LLM, Scikit-Learn, NLP
- Tools: Playwright, Firestore, VectorDB
- Languages: Python, Java, SQL, C, C++, C

EDUCATION

University of California, Berkeley — December 2022
Bachelor of Science - Electrical Engineering and Computer Science
Certificate of Entrepreneurship and Technology

Relevant Courses: Database Systems, Internet Architecture & Networking, Computer Security, Data Structures, Algorithms, Software Engineering, Machine Structures, Discrete Math & Probability Theory, Data Science Foundations