https://www.linkedin.com/in/leonliu1839

EXPERIENCE

Siemens Healthineers

Palo Alto, CA

Mobile: (858) 729-8612

February 2023 - Present

Email: leonliu1821@gmail.com

Software Development Engineer

- Built Python-based backend automation tools for web and desktop testing, improving internal QA workflows.
- Unified logs from distributed systems using Syslog for streamlined debugging and monitoring.
- Led development of a BERT-powered internal search assistant for a 100K+ lines of code codebase.

Nesh (Startup)

Houston, TX

Machine Learning Software Engineer Intern

April 2022 - August 2022

- Developed and deployed RESTful APIs for ML-powered document search and ranking features.
- 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

- Built backend models using BERT and scikit-learn for client sentiment analysis and topic ranking.
- Supported data engineering pipelines and developed backend logic for automating survey-based insights.

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

- Designed backend logic for outfit recommendations using weather, calendar events, and AI-generated style models.
- Developed database schema and wardrobe item tagging; integrated Firebase for auth and Firestore for storage.

Job Hunter Present

- Developed a Google extension using React and FastAPI to track job applications and deliver AI-driven insights.
- Built custom components and used AgenticAI to orchestrate AI agents to do resume analysis and mock interviews.

Tile Heights December 2024

- Built backend using Next.js API routes and MongoDB, enabling secure admin access and order management.
- Implemented RESTful API endpoints and Google OAuth for user authentication, with Stripe payment integration.

SKILLS

- \bullet Backend: FastAPI, Node.js, MongoDB, PostgreSQL, Firebase
- Frontend: React, React Native, Next.js, Tailwind, TypeScript, JavaScript, Chrome Extensions
- DevOps & Cloud: Docker, AWS EC2, Vercel, CI/CD (Jenkins, GitHub Actions)
- Machine Learning: CrewAI, LangChain, OpenAI, BERT, LLM, Scikit-Learn, NLP
- $\bullet\,$ Tools: Playwright, Firestore, Vector DB
- 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