Leo Lee

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EDUCATION

University of Southern California   Los Angeles, CA
Master of Science in Computer Science - Data Science   *August 2023 - May 2025*

University of California, Santa Cruz   Santa Cruz, CA
Bachelor of Science in Computer Science   *October 2020 - June 2023*
Honors: Cum Laude with Highest Honor in the Major.

EXPERIENCE

Software Engineer Intern   San Jose, CA
AMD (Advanced Micro Devices)   *May 2024 - August 2024*

- Developed dashboard using Python, Flask, MySQL, and JavaScript enabling engineers to monitor test pattern health and device performance
- Optimized dashboard loading time from 13 seconds to 0.2 seconds using SQLAlchemy and asynchronous data loading
- Implemented Celery notification system for automated alerts and device performance insights

Machine Learning Research Intern   Los Angeles, CA
University of Southern California   *September 2023 - May 2024*

- Conducted benchmarking on outlier detection algorithms using PyOD for large textual documents
- Utilized SkLearn to preprocess and label datasets for machine learning analysis
- Coordinated team workflow and presented IEEE format research paper to classmates

PROJECTS

Portfolio Manager — *Next.js, FastAPI, TypeScript, MongoDB, TailwindCSS*

- Developed a full-stack multimedia portfolio management application with drag-and-drop file uploads
- Utilized FFmpeg to generate video thumbnails and stored as encoded string in the database
- Built RESTful FastAPI backend with MongoDB using Motor async driver for data persistence
- Created responsive React frontend with Zustand state management featuring expandable sections
- Integrated Pydantic models for data validation and implemented secure file handling with size limits

MailWriter — *Next.js, PostgreSQL, Supabase, Shadcn*

- Developed Claude API powered email assistant that generates personalized emails matching user writing style
- Implemented Google OAuth authentication with NextAuth.js and Supabase for user management
- Created responsive UI using Tailwind CSS and shadcn/ui components
- Built React features for email collection, generation, and one-click copy functionality

Moodify — *Python, Reflex, TailwindCSS*

- Developed image to music web application that generates personalized music recommendations from uploaded photos
- Implemented Google Gemini Pro Vision API to analyze photo content and generate matching song suggestions
- Integrated Spotify API for user authentication and playlist access
- Utilized Reflex Python framework to build full-stack application with pure Python

SKILLS

Languages: Python, JavaScript/TypeScript, C/C++, Java, SQL
Frameworks: Next.js, React.js, Flask, FastAPI, Express, Node.js, Celery, Reflex, AJAX, jQuery
UI Libraries: TailwindCSS, MUI, Bootstrap, Shadcn
Databases: PostgreSQL, MySQL/MariaDB, MongoDB, Supabase, SQLite
Developer Tools: Git, Docker, Google Cloud Platform (GCP), Swagger, Pylint, MyPy, CI/CD, Jupyter
Other Tools: Playwright, Agile, React Testing Library, Jest, JIRA, Confluence, Make