Derrick Lin

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EDUCATION

University of California, San Diego **Expected: June 2026**

Bachelor of Science in Computer Engineering and Cognitive Science (Machine Learning & Neural Computation), GPA: 3.8
Relevant Courses: Software Engineering, Data Structures/Algorithms, Machine Learning, Operating Systems
Academic Awards: Provost Honors (3x)

WORK EXPERIENCE

TipTop Technologies **January 2025 - March 2025**
Software Engineering Intern Sunnyvale, CA
- Designed **soft deletion endpoints** in Flask for assets and feeds, ensuring safe recovery while maintaining backend data integrity
- Built real time NLP microservices using **Whisper**, **MarianMT**, and **FFmpeg** on **AWS EC2** and Lambda, enabling low-latency multilingual translation

Supermicro **June 2024 - September 2024**
System Engineer (GPU Team) San Jose, CA
- Diagnosed and resolved **OS and server hardware issues**, improving system reliability by 40%
- Maintained LLaMA model's knowledgebase by integrating data pipelines and automating end-to-end processing with Bash and Python scripts, eliminating **100% of manual workflows**.
- Implemented and optimized training/inference pipelines for LLaMA 3.1 models, increasing accuracy by 30% through **LoRA fine tuning** and optimized environment configuration

CodePath **May 2024 - August 2024**
Tech Fellow San Francisco, CA
- Mentored 30 students weekly in **data structures and algorithms**, resulting in a 25% improvement in problem-solving accuracy

Qualcomm Institute **January 2024 - June 2024**
Software Engineering Intern San Diego, CA
- Developed a high resolution **digital twin** of UCSD Campus using 3D photogrammetry, increasing model clarity by 50%
- Enhanced solar panel positioning and weather modeling by integrating **Python** scripting in Unreal Engine with a C++ plugin to optimize daily sunlight variations

LearnWise AI **October 2023 - December 2023**
Software Engineering Intern Remote, CA
- Developed and deployed **Golang microservices** integrated with AWS Lambda and API Gateway, supporting scalable backend features for real-time education tools
- Improved response times for chatbot and NLP features by leveraging Go's concurrency model and optimizing cloud native service execution

LEADERSHIP EXPERIENCE

Computer Science and Engineering Society (CSES) at UCSD **September 2023 - June 2024**
Event Director San Diego, CA
- Directed **40+ technical workshops and social events**, reaching over **500 students**
- Launched a **mentorship program** that increased student participation in computer science by 20%

PROJECTS

KeycapVault | [Demo](#) | [Github Code](#) | **(**Python, MongoDB, Flask, HTML, CSS, JavaScript)
- Created web application with a custom scraper to automate keycap data collection, enable CRUD management, and compare user collection against live product listings

Dev Journal | [Demo](#) | [Github Code](#) | (HTML, CSS, JavaScript, Node.js, Express.js, Jest-Puppeteer, SQLite)
- Created a localized, privacy-focused note-taking application, improving data security and user experience

Stock Predictor | [Demo](#) | [Github Code](#) | (Python, Pandas, scikit-learn, matplotlib, statsmodels)
- Developed a Jupyter notebook based Apple stock predictor that applied unsupervised learning (clustering, PCA) for feature engineering and ARIMA modeling to forecast prices, achieving a 52.8% directional accuracy

SKILLS

Languages | Java, Python, JavaScript, C, C++, HTML, CSS, Golang, Bash
Technologies | React, Node.js, Next.js, FastAPI, PostgreSQL, SQLite, MongoDB, TensorFlow, PyTorch
Software | AWS, Google Cloud Platform, Docker, Unix/Linux, Git/Github