

Michael Li

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EDUCATION

University of California, Berkeley

B.A. Computer Science

Courses: Intro to Machine Learning, Computer Vision, Intro to AI, Computer Architecture, Data Structure & Algorithm
GPA: 3.91/4.00

Berkeley, CA

2023-2027 (Expected)

WORK EXPERIENCE

UC Berkeley Sky Computing Lab

Undergraduate Researcher

Berkeley, CA

Sept. 2025 - Present

- Developed and integrated new LLM model compatibility features into the **Berkeley Function Calling Leaderboard (BFCL)**, a 12.4k-star open source project, while maintaining and improving core infrastructure.
- Designing a Slack-based environment to benchmark **horizontal AI agents** for company knowledge base used to streamline knowledge retrieval and automate workflows.
- Streamlined evaluation workflows by standardizing benchmarks across LLM models, incorporating community feedback and real-world requirements to ensure scalability and reliability.

Rivian and Volkswagen Group Technologies

Software Engineering Intern

Irvine, CA

May 2025 - Aug. 2025

- Architected and implemented **Software-in-the-Loop (SIL)** test frameworks for Rivian's R1T, R1S, and R2 platforms, automated test execution and enhanced CI/CD pipeline integrity.
- Developed software approach to plot vehicle signals and states over time (mini-PCAP) without having to set up for vehicle tests, **saving at least 8 hours** in each feature testing cycle.
- Developed **C-based** software fixes for hardware limitations (e.g. open-loop motor calibration), reduced Active Grille Shutter (AGS) service requests from 100+ to less than 5 per month.
- Contributed to the development of OSCAR (Omniscient System for Code Analysis and Reasoning), a **dual-agent coding AI with RAG** for streamlining generation and structuring of Diagnostic Trouble Codes (DTCs) across the company-wide vehicle diagnostics system.
- Wrote bash scripts to streamline testing setups, **saved every developer at least 1 hour** per day. Resolved tickets in Jira, documented works in Confluence, and linked requirements in Jama.

Someidea AI

Machine Learning Engineer

Berkeley, CA

March 2025 - May 2025

- Designed and implemented a **Retrieval-Augmented Generation (RAG)** pipeline with document chunking, vector embedding, vector indexing using SQL, and storage using Milvus, deployed over AWS.
- Developed a **Selenium-based** web scraper to automate financial data extraction from sources including Statista and SEC EDGAR Filing System.
- Built a minimum viable product (MVP) for a multi-agent financial intelligence system within two months of onboarding, contributing to both backend logic and system architecture.

KiDrone

Software Engineer Intern (Full Stack & Algorithm)

Toronto, ON

May 2024 - Aug. 2024

- Designed and implemented a full-field flight coverage algorithm for unmanned drones using **Python, NumPy, Matplotlib**, and ArcGIS.
- Applied Boustrophedon Cellular Decomposition and implemented a customized Dijkstra's algorithm based on academic literature for optimal path planning.
- Built and packaged a cross-platform desktop application using **Electron (HTML/CSS/JavaScript)** with an embedded **Python** backend, enabling offline deployment of drone flight algorithms.
- Researched and designed a **CNN-based** solution in **PyTorch** to optimize drone flight time through aerial image analysis of damaged terrain.

SKILLS, ACTIVITIES & INTERESTS

Languages: Fluent in English and Mandarin.

Technical Skills: Python, C, SQL, AWS, JavaScript, HTML/CSS, Next, React, SCSS, Electron, Bash, Jira, Jama, Git, Gitlab

Activities: Engineering Solutions at Berkeley (ESB), Formula Electric at Berkeley (FEB).