Edward Lu

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EDUCATION

University of California, Berkeley
2024 – 2028

B.A. Statistics and Computer Science

Coursework: Computing w/ Data, Data Structures & Algorithms, Modern Statistical Prediction and Machine Learning, Structure & Interpretation of Computer Programs, Computer Architecture, Introduction to Artificial Intelligence

AWARDS

4× hackathon winner: YC Expo CTGT Winner (**1/98**), Cal Hacks 12.5 (**6/400** teams), Cal Hacks 11.5 Terac Challenge (**3/150**), TreeHacks 2026 Honorable Mention, CMU picoCTF (top **9/5000** worldwide), USACO Gold, National Cyber Scholar

EXPERIENCE

Software Engineer Intern
June 2026 – Present

Noitom Robotics

- Built and deployed **LensGrid**, a **REST API** video intake platform on **AWS** with **Docker**, **Amazon S3**, and **PostgreSQL**
- Built LensGrid Reviewer, a console in **TypeScript**, **React**, and **Next.js** with **Python's FastAPI**, letting non-engineers approve datasets directly with automated QA; this cut manual review time by around **40%** as measured by batch per hr
- Scaled AWS S3 batch exports across 4 regions, delivering 500+ motion-capture takes to client pipelines
- Built a **Python**/**NumPy** pipeline to normalize and validate 6 incompatible motion-capture formats under one schema

Full Stack Software Engineer
May 2026 – September 2026

Better Campus

- Built and deployed over **11** student-facing features in my **first two weeks** with **TypeScript**, **React** and **Vite** over WXT
- Raised active trials by **42%** in four weeks by shipping live rooms, class spaces, and collaborative study workflows
- Fixed **25** production issues across our **Cloudflare REST API** and **PostgreSQL** queries that serve over **2M** students
- Cut **10.4k lines** of unreachable code from codebase and hardened prod through pinning verification to Supabase Issuer
- Created end-to-end tests for **React components** w/ **Browserbase** resulting in a **13%** increase in frontend test coverage
- Built AgentTree to orchestrate coding agents across **Git worktrees** to tackle **Linear** issues in parallel & transfer context

Undergraduate Researcher
April 2026

Murphy Lab, Princeton

- Built a merge-suggestion pipeline for **FlyWire**/**FAFB** neuron proofreading with **Python**, **PyTorch**, CAVEclient and CloudVolume, detecting severed neurite endpoints and ranking nearby candidate segments
- Ranked neurite continuations by PCA trajectory alignment and surface gap with **NumPy**, **SciPy**, and KD-trees
- Piloted with 4 proofreaders over 200 endpoints, cutting median resolution time from **6.5 to 4 minutes**

Applied AI Engineer Intern
December 2025 – February 2026

Operis

- Built a **LangGraph** legal research agent that uses context graphs to derive relationships across **4.1M** documents
- Shipped a **React**/**TypeScript** review console that translates complex model outputs into clear attorney-friendly evidence
- Built **LLM** evals and hybrid **BM25** + dense retrieval with graph expansion and **LightGBM** reranking
- Deployed a **FastAPI** server with **PostgreSQL**+**pgvector** on **Google Cloud** for retrieval across **100+ GB** of data

PROJECTS & OPEN SOURCE CONTRIBUTIONS

Markdown Preview Enhanced, Open Source Contribution
TypeScript, VS Code Extension API

- Fixed persistent preview scroll-state loss in a VS Code extension w/ **10M+ install** by correcting custom-editor webview lifecycle configuration; merged upstream in **PR #2352** github.com/shd101wyy/vscode-markdown-preview-enhanced

cpvc — cross-platform system-volume crate https://crates.io/crates/cpvc
Rust, libasound2-dev, objc2_core-audio

- Built **Rust** wrapper over the native volume APIs on **macOS**, **Windows** and **Linux**, so system audio is a single code path instead of three platform branches; published on crates.io with **~5,000 downloads**

TECHNICAL SKILLS

Skills Python, TypeScript, C++, SQL, Next.js, FastAPI, PyTorch, OpenCV, NumPy, LightGBM, LLMs, LoRA, Stable Diffusion, RAG, REST APIs, PostgreSQL, Supabase, Cloudflare, AWS, Docker, Git, Linux

Interests Climbing, Running, Research, LoRA Models, App Development, Open Source Development