

Daniel Lim

+1 (650) 602-3822 | daniellim@berkeley.edu | linkedin.com/in/daniel-z-lim | daniellim.net | https://github.com/DanLim5599

EDUCATION

University of California, Berkeley

August 2022 – Expected May 2026

Bachelor of Science, Computer Science Major — Data Science Minor — GPA: 3.8

Berkeley, CA

EXPERIENCE

Software Engineer

January 2026 – Now

Karass

Mountain View, CA

- Designed, implemented, and deployed a native iOS app from the ground up using **Swift** and **SwiftUI**, owning the full development lifecycle from system architecture and **Firestore** data modeling to App Store submission.
- Built the complete front end by translating **Figma** design specs into custom **SwiftUI** views and reusable components, including onboarding flows, animated beacon status screens, and Metal GPU shader effects.
- Deployed a serverless backend on **Firebase Cloud Functions** in **TypeScript** with **Firestore**, handling user authentication, real-time data synchronization, push notifications via **APNs**, and role-based admin controls. Serverless backends eliminate infrastructure overhead, reduce costs at low traffic, and allow automatic scaling.
- Leveraged agentic instances of **Claude Code** to accelerate work cycles, automate code reviews, generate test suites, and rapidly prototype features, significantly reducing time from idea to working implementation.
- Communicated with testers and users to identify and deliver timely bug fixes, ensuring smooth operation and addressing users needs directly.

Software Engineer Intern

May 2025 – August 2025

Kitecyber

San Jose, CA

- Built a **Python** tool that automatically sorts and labels 50,000+ websites into a 640-category system for company-wide security policy enforcement. Used **Pydantic** for structured data validation and batch processing.
- Integrated **Perplexity AI** APIs to automate the classification and threat-labeling of websites, replacing a slow manual review process. Built a separate verification pipeline with structured prompts to catch and fix errors.
- Designed a security scanning tool that scores websites for risk across 5 categories, each running independently using **OpenSSL** for certificate checks, **nmap** for port scanning, **BeautifulSoup** for header and cookie policy analysis, DNSSEC validation, and integrity verification of all externally loaded scripts and resources.
- Automated the inspection of dynamic web pages using **Selenium** with headless Chrome, catching security issues like mixed HTTP/HTTPS content and missing integrity checks that standard static scanners would miss.

Front End Developer Intern

June 2024 – August 2024

Superflow

Mountain View, CA

- Received **Figma** mockups from the design team and built them into responsive pages for a learning platform using **React**, **TypeScript**, and **Firebase**, creating reusable components and interactive user-facing features.
- Owned manual QA across the entire web application, systematically testing every page, form, and interaction for edge cases and boundary conditions, identifying and reporting bugs to ensure a stable product before each release.
- Participated in daily standups and agile sprints, tracking tasks and bugs in **Jira** and managing version control through **Bitbucket**, collaborating directly with designers and developers to ship features on schedule.

PROJECTS

Image Classification System

Python, PyTorch, NumPy, Matplotlib

- Built a handwritten digit recognition system that identifies numbers 0–9 from images using **PyTorch** neural networks, developing the full training pipeline including data loading, model architecture, and MNIST evaluation.
- Improved model accuracy by tuning hyperparameters and applying techniques like batch normalization, learning rate scheduling, and dropout regularization to reduce overfitting and improve generalization on unseen data.

Secure Distributed File Sharing System

Go, Cryptography, System Design

- Built a secure file sharing system in **Go** where only the intended recipient can read shared files — even the server cannot decrypt the contents. Implemented end-to-end encryption for all file storage and transfer operations.
- Used **RSA** public-key cryptography for secure key exchange and digital signatures to verify file authenticity, combined with **AES-CTR** symmetric encryption for fast, efficient encryption of file contents at rest and in transit.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, Go, Swift, JavaScript, TypeScript, SQL, HTML/CSS, RISC-V Assembly

Frameworks: React, SwiftUI, REST APIs, Firebase, MongoDB, PostgreSQL, Docker

Developer Tools: Git, VS Code, Xcode, IntelliJ, Figma, nmap, OpenSSL, Jira, BitBucket, Confluence

Libraries: PyTorch, NumPy, Matplotlib, Pandas, CoreBluetooth, Metal, APNs, Pydantic, BeautifulSoup, Selenium