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## Education

### B.S. in Electrical Engineering and Computer Science

Dec 2025

University of California, Berkeley | GPA: 3.78 Overall

**Relevant Coursework:** Machine Learning, Deep Learning, Operating Systems, Computer Security, Data Structures

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## Technical Skills

**Languages:** Python, C, C++, Go, Rust, Bash, PowerShell

**ML Frameworks & Tools:** PyTorch, CNNs, ViTs, multi-modal architectures, OpenCV, large-scale data pipelines

**Platform & Infrastructure:** Docker, GCP (Cloud Run, Cloud Build), Linux, CI/CD pipelines, Git, FastAPI, React

**AI Agents & LLMs:** Google Agent Development Kit (ADK), multi agent collaboration, tool/API orchestration

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## Work Experience

### Squishy Robotics

Sep 2025 - Feb 2026

#### *Undergraduate Researcher*

- Designed and built a large-scale data annotation and labeling pipeline generating ~100,000 synthetic hyperspectral training images for methane leak detection on remote-deployment sensor robots, bridging raw hardware sensor output with ML model input across hardware and ML engineering teams in a performance-sensitive, end-to-end workflow
- Trained and benchmarked multi-modal CNN and Vision Transformer architectures adapted from recent methane quantification literature on hyperspectral sensor data, systematically evaluating model performance against hardware constraints, identifying failure modes, and iterating on data quality and model design to drive measurable performance

### Lawrence Berkeley National Laboratory

Jun 2025 - Aug 2025

#### *Research Intern*

- Conducted user research with electron microscopy scientists to understand existing analysis workflows and unmet needs, then translated those findings into product requirements and system integration with Crucible, the lab's scientific data accumulation and ML workflow platform
- Designed and built a full-stack Data Portal (React frontend, FastAPI backend) deployed on GCP Cloud Run via Docker, enabling researchers to upload, query, and interact with electron microscopy datasets through a unified web interface

### O'Prueba - Taiwanese Edge Computing Startup

Aug 2023 - May 2024

#### *Intern*

- Conducted independent deep-dive technology and market research across the U.S. enterprise edge computing landscape, synthesized findings into a strategic recommendation presented directly to the CEO in Taiwan

### SAIC - Naval Information Warfare Center, Pacific

Feb 2019 - Apr 2021

#### *Sr. Systems Administrator*

- Architected a secure laboratory replicating high-availability production Naval infrastructure across VMware, Windows Server, and Cisco environments, building automated deployment and hardening scripts (PowerShell, Bash) that enforced DoD compliance and automated vulnerability scanning and regression detection
- Granted Top Secret (TS) clearance – currently inactive, eligible for reinstatement

### United States Marine Corps

Jul 2014 - Feb 2019

#### *Data Systems Administrator*

- Served as Platoon Sergeant leading 25+ Marines through training cycles and deployments while concurrently building and managing mission-critical network and server infrastructure for 500+ users, balancing personnel leadership and technical operations under sustained pressure

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## Projects

### AI Agent for Stock Market Investment Research – Personal Project (GitHub)

- Designed and built an autonomous AI agent using Google Agent Development Kit (ADK) to automate investment research workflows: The agent orchestrates web search, news analysis, and financial service API calls to retrieve historical performance data, identify trends, and generate forward-looking predictions