

NEO SUD

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EDUCATION

University of California, Santa Cruz

Santa Cruz, CA

Bachelor of Science, Computer Science

Sep 2023 – Mar 2026

- **Cumulative GPA: 3.96/4.0**
- **Relevant Coursework:** *Applied Machine Learning, Artificial Intelligence, Computer Architecture, Data Structures, Systems Design, Databases, Analysis of Algorithms, Programming Languages*

EXPERIENCE

Software Engineering Intern

Mar 2026 – Jun 2026

Boost Results

San Mateo, CA

- Built a PHI-safe LLM Tier 2 investigation agent that turns Jira tickets into structured root-cause summaries across Azure telemetry, Boost API, and database lanes.
- Designed deterministic anchor resolution + MCP-driven enrichment (names + dates → appointment GUIDs) feeding named KQL queries and safe DB probes.
- Implemented heuristic Rhapsody pre-filter (auto-resolves 80% of benign failures), a PreToolUse SQL validator, and a two-pass PHI sanitizer enforced by a dedicated subagent.

Software Engineering Intern

Jun 2025 – Sep 2025

CrowdStrike

Sunnyvale, CA

- Built a unified CLI for 30+ malware classifiers, optimizing internal model testing and deployments.
- Moved microservices to a monorepo, cutting bug tickets by 40% via centralized version control tools.
- Automated Python (UV) pipelines to ensure high build reproducibility across all cloud environments.
- Optimized Jenkins CI/CD pipelines, boosting build and runtime performance by a factor of up to 4x.

Data Engineering Researcher

Mar 2025 – Jan 2026

UCSC Genomics Institute

Santa Cruz, CA

- Architected AWS S3 pipelines to process 25+ datasets, managing extraction of 63M+ embeddings.
- Scaled KNN/Louvain clustering, reaching 91% accuracy for a novel high-resolution tumor cell atlas.
- One of 27 national groups selected to present technical findings at the NCI ITCR 2025 Symposium.

Full-Stack Research Fellow

Apr 2024 – Sep 2025

Tech4Good Lab

Santa Cruz, CA

- Awarded a \$6,000 NSF REU to conduct HCI research under the direction of Professor David Lee.
- Architected an ML Platform for 200+ users; first-authored research for CHI '26 and IUI '26.
- Optimized backend logic using Dawid-Skene EM, increasing system processing efficiency by over 40%.
- Engineered a RAG service utilizing 50+ expert datasets to boost automated response accuracy levels.

PROJECTS

Vouch | Go, SPAKE 2, AES Encryption, GitHub Actions

- Developed a peer-to-peer tool in Go for securely sharing environment variables over networks.
- Implemented AES encryption and SPAKE handshakes to ensure the safe transfer of sensitive secrets.
- Automated the release process by configuring GitHub Actions with goreleaser and npm-publish.

SudGPT | Next.js, GPT-5-nano, ElevenLabs, Tailwind CSS

- Built a digital persona app with a glassmorphic UI using Next.js 16, React 19, and Radix UI tools.
- Fine-tuned gpt-5-nano on iMessage data to replicate professional style with OpenAI safety filtering.
- Integrated ElevenLabs API for low-latency voice synthesis with custom-built audio player modules.

AWARDS/SKILLS

Programming Languages: Python, C++, C, SQL, TypeScript, Java, Dart, HTML/CSS, Bash

Awards: NSF REU in Computing (2024), Dean's Research Award (2025), Dean's Honor List (6x, 2023-2025)

Technologies: Docker, Kubernetes, UV, Jenkins, AWS, Firebase, Flutter, GCP, Pinecone, Unix/Linux, Git