

NEO SUD

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EDUCATION

University of California, Santa Cruz Bachelor of Science, Computer Science	Santa Cruz, CA Sep 2023 – Jun 2026
<ul style="list-style-type: none">Cumulative GPA: 3.96/4.0Relevant Coursework: <i>Applied Machine Learning, Artificial Intelligence, Computer Architecture, Data Structures, Systems Design, Databases, Analysis of Algorithms, Programming Languages</i>	

EXPERIENCE

Software Engineering Intern CrowdStrike	Jun 2025 – Sep 2025 <i>Sunnyvale, CA</i>
<ul style="list-style-type: none">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 UCSC Genomics Institute	Mar 2025 – Jan 2026 <i>Santa Cruz, CA</i>
<ul style="list-style-type: none">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 Tech4Good Lab	Apr 2024 – Sep 2025 <i>Santa Cruz, CA</i>
<ul style="list-style-type: none">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.	
Lead Software Engineer SlugAI	May 2024 – Aug 2024 <i>Santa Cruz, CA</i>
<ul style="list-style-type: none">Directed development of 10+ interactive math animations using Python for SlugAI's educational initiative.Mentored 25+ students in Python and deep learning fundamentals through weekly sessions.Coordinated campus events featuring industry professionals (300K+ cumulative reach).	

PROJECTS

SudGPT Next.js, GPT-5-nano, ElevenLabs, Tailwind CSS	<ul style="list-style-type: none">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.
Yardbird TypeScript, Next.js, LangChain, Pinecone	
<ul style="list-style-type: none">Built a scalable search service using Pinecone and LangChain, cutting query latency by nearly 15%.Developed reusable Next.js UI components for a high-performance musician discovery web interface.Shipped a production-ready MVP in 6 weeks for the Buildspace nights and weekends global challenge.	
Soshal Flutter, Firebase, Google Cloud Platform (GCP)	
<ul style="list-style-type: none">Architected a cross-platform social application for club management using Flutter and Firebase.Implemented backend microservices on GCP to ensure real-time data synchronization and scalability.Successfully deployed the application for the Google Student Developer Challenge (2024).	

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