

Santosh Lakshman

✉ sanylax01@gmail.com 📞 408-805-2164 💻 linkedin.com/in/sanylax

Education

University of California, Santa Cruz Computer Science B.S.

March 2023

Coursework: Algorithms & Data Structures, Operating Systems, Databases, Networking, Machine Learning, Full-Stack Web Development

Organizations: Google Developer Group, Alpha Kappa Psi (Business Fraternity)

Experience

Traba (Money) Software Engineer II

Mar 2026 - Present New York, NY

TypeScript, GCP, Stripe, Zeal

- Enabled Instant Pay for W2 workers, expanding earned wage access to a new worker segment
- Rebuilt the Clearing House from scratch, improving payment processing reliability and scalability
- Built a unified billing contacts experience with full role-based permissions across the platform
- Integrated Zeal and Stripe APIs to streamline payroll disbursement and payment workflows

Amazon (UnifiedAuth) Software Development Engineer

Nov 2023 - Mar 2026 New York, NY - San Jose, CA - Remote

Java, Kotlin, JavaScript, AWS

- Designed and implemented a telemetry system which assisted 300K+ services migrate legacy dependencies
- Created Data Pipeline which ingested, aggregated, and displayed the telemetry data to 15K+ service owners
- Made improvements to OAuth-based network authentication protocol which reduced memory usage by 32%

Amazon - (UnifiedAuth) Software Development Engineer Intern

Jun 2022 - Sep 2022 New York, NY - Remote

Python, Scala, AWS, Spark SQL

- Built an AWS dashboard that collected, aggregated, and displayed critical business metrics
- Generated insights which helped improve Amazon's security posture across 50K internal services
- Saved 10 Developer hours per week spent on collecting metrics and assisted in reprioritizing team goals

Sage (Social Media Startup) Software Developer Intern (NLP)

Jun 2021 - Sep 2021 San Jose, CA - Remote

Python, R, SQL, NLTK

- Developed an ML model which uses Natural Language Processing to match new questions with field experts
- Performed analysis on multiple supervised learning methods (Random Forests, K-Nearest-Neighbor, ...) and vectorization methods (Count, N-Grams, TF-IDF)
- Utilized Python, R, and SQL experience to build out tools utilizing the Natural Language Toolkit, scikit-learn, numpy, and pandas in order to drive 10,000 MAU organically

University of California, Santa Cruz (Computer Science and Math) Academic Tutor

Apr 2020 - Jun 2021 Santa Cruz, CA - Remote

C++, Python, Java

- Reinforced student knowledge of data structures and algorithms, calculus, and other CS/Math courses
- Demonstrated strong knowledge in functional programming, OOP, recursion, pointers, etc.
- Helped students apply skills through projects, homework, and labs

Projects

SayV - Android Application

Java, Node.js, Firebase, Android, iOS, Wifi-Direct, Bluetooth

- Built a P2P community-based panic button alarm system and notification network unreliaant on the internet for mobile
- Won Top 20 App and cash prize at Los Altos Hacks, one of the largest Silicon Valley hackathons

Endless Void - Side-scroller game

C++, SFML (2D game library)

- Built a 2D spaceship combat game with procedurally generated levels, randomized obstacles, and increasing difficulty

CanvasCal - Status Bar App

Python, Google Calendar API, Canvas REST API

- Synced academic schedules from Canvas to Google Calendar with automated reminders and assignment tracking

Skills

Languages: Java, Kotlin, Python, C/C++, Javascript, Typescript, Scala, SQL, HTML/CSS, Assembly, Bash, LaTeX

Tools: AWS (CDK, EC2, ECS Fargate, Lambda, S3, IAM, CloudWatch), Git, Linux, Docker, Kubernetes, GCP, PostgreSQL, Stripe, Zeal, Porter

Libraries/Frameworks: React, TanStack, Vite, Spring, Node, Auth0, Express, SFML, OpenCV, API.AI, scikit-learn, numpy