

Santosh Lakshman

✉ santosh@ucsc.edu 📞 408-805-2164 🔗 [linkedin.com/in/sanylax](https://www.linkedin.com/in/sanylax) 🐙 github.com/sanylax

Education

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

March 2023 4.0 GPA

Coursework: Data Structures and Algorithms, Database Systems, Networking, Full-Stack Web Development, Operating Systems, Machine Learning, Computer Architecture (RISC-V), Computer Graphics, Linear Algebra

Organizations: Alpha Kappa Psi (Professional Business Fraternity)

Experience

Amazon Software Development Engineer Intern

Jun 2022 – Sep 2022 New York, NY

Python, Scala, AWS, Spark SQL

- Designed and implemented a dashboard from the ground up using AWS which 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 Software Development Intern (NLP)

Jun 2021 – Sep 2021 San Jose, CA

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 Academic Tutor (Computer Science)

Apr 2020 – Jun 2021 Santa Cruz, CA

C++, Python, Java

- Reinforced student knowledge of data structures and algorithms
- 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, HTML, CSS, and Firebase

- Developed a panic button integrated into a P2P community-based alarm system
- Inspired by the alarmingly high rates of assault on college campuses
- Won Top 20 App and cash prize at Los Altos Hacks, one of the largest hackathons in the Silicon Valley

Endless Void – Side-scroller game

C++, SFML (2D game library)

- Created a 2D spaceship combat game for C++ Game Programming course
- Contains procedurally generated levels, randomized obstacles, increasing difficulty, backdoors, and more
- Gained leadership experience through project coordination, applying CI/CD tools

TRVL Rideshare Assistant – FB Chatbot

Python, API.AI, Facebook Messenger API

- Built an autonomous chatbot which lets you compare prices between ridesharing services
- Uses natural language processing to deliver information conversationally

TurkBot – Music Bot

Python, Discord, Spotify, and YouTube APIs

- Developed a voice bot which allows you to play music in VOIP services
- Links with Spotify to automatically play your personal music collection, uses caching to decrease latency

CanvasCal – Status Bar App

Python, Google Calendar, and Canvas APIs

- Employed Canvas REST API to synchronize academic schedule with Google Calendar
- Provides reminders, assignment information, and more configurable options

Skills

Languages: Python, Javascript, Java, Scala, SQL, C/C++, HTML/CSS, Assembly, Shell Script, LaTeX

Tools: AWS (CDK, EC2, Lambda, S3, IAM, CloudWatch), Git, Linux, Docker, Kubernetes, GCP, PostgreSQL

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