Santosh Lakshman

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Education

University of California, Santa Cruz   Computer Science B.S.
June 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 Developer Engineer Intern
Jun 2022 - Sep 2022   New York, NY   **Python, Scala, AWS, Spark SQL**
- Designed and implemented a dashboard which collected, aggregated, and displayed critical business metrics
- Generated insights which led to higher security 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