Shreya Sundar

510-634-3024 | shreyasundar27@gmail.com | linkedin.com/in/shreyasundar | github.com/shreyasun

EDUCATION

University of California, Santa Cruz Santa Cruz, CA

Bachelor of Science in Computer Science Sep. 2021 – Jul. 2024

- **Coursework:** Data Structures/Algorithms, C Programming, Applied Machine Learning, Computer Systems Design, Database Systems, Software Engineering, Advanced Programming (C++, OOP)

EXPERIENCE

Software Engineer Intern Jun. 2024 – Aug. 2024

Realtor.com Austin, TX

- Spearheaded a solution to offload call recordings of agent/consumer conversations from Twilio to AWS S3, aimed at reducing storage costs by thousands of dollars annually
- Implemented Python scripts to correctly source and analyze recordings, automate the transfer of 100,000+ call recording files from Twilio to an AWS S3 Bucket, and deletion of 100,000+ call recordings from Twilio, utilizing multithreading to efficiently handle large amounts of audio files
- Implemented robust IAM policies, roles, and user configurations in the AWS management console and Terraform to ensure secure and efficient access control and consistency across all production environments
- Conducted extensive testing of the offloading of recordings to S3 in a development environment to validate the functionality, performance, and reliability of the new storage solution

Software Developer Intern Nov. 2022 – May. 2024

UC Santa Cruz Genomics Institute Santa Cruz, CA

- Developed and implemented 10+ frontend features for a genomic data visualization web application using JavaScript and React.js, optimizing data access and search, resulting in a more navigable, user-friendly platform
- Composed functions and adapted scripts to generate accurate graph visualizations and preserve data integrity by troubleshooting browser-related issues, processing data input, handling coordinates, and computing statistics
- Reconfigured server to expand user file I/O options, achieving visualization options for node and track structures
- Constructed 10+ unit test scripts, ensuring component functionality and computed data reliability

Computer Science Tutor May 2019 – July 2019

UC Santa Cruz Baskin School of Engineering Santa Cruz, CA

- Supported 50+ undergraduate students as a tutor for Data Structures and Algorithms and Machine Learning Basics
- Held biweekly sessions to address students' code, address questions, explain concepts, and provide assignment overviews

Developer and Designer Mar. 2022 – Sep. 2023

Tech4Good Research Laboratory Santa Cruz, CA

- Designed and developed 15+ responsive and interactive frontend components for 5 web applications, using HTML, SCSS, and Typescript, streamlining user interactions and enhancing usability
- Implemented data storage and retrieval functionality with Firestore, enabling personalized user experiences for 100+ users

PROJECTS

Schmidt-Samoa Cryptosystem | *C, Linux, GMP* Project Link

- Employed Schmidt-Samoa algorithm to develop executables to maintain file privacy/security, which generate asymmetric key pairs, encrypt user-specified files, and decrypt encrypted files

Lempel-Ziv Data Compression | *C* Project Link

- Established command line tools for data encoding and decoding, using the Lempel-Ziv compression algorithm, implementing trie, word, and word table data structures, and reading and writing bytes to and from files

Jeopardy Trivia Game Maker | *React.js, Node.js, Express.js, MongoDB, Firebase* Project Link

- Developed a comprehensive full-stack application for users to create and manage trivia cards that can be dynamically integrated into a responsive Jeopardy board

TECHNICAL SKILLS

Languages: Python, JavaScript, C, C++, Java, SQL (MySQL, PostgreSQL), HTML, CSS, TypeScript
Technologies and Frameworks: React.js, Next.js, Node.js, Express.js, Pandas, NumPy, Scikit-Learn, REST APIs, GraphQL
Developer Tools: MongoDB, FireStore, Git, Docker, Linux, Valgrind, Google Workspace, Microsoft Office, Figma, Jupyter, Amazon Web Services, Asana, Jira, Notion