

Shreya Sundar

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EDUCATION

University of California, Santa Cruz

Santa Cruz, CA

Bachelor of Science in Computer Science (Honors)

Sep. 2021 – Jul. 2024

- **Coursework:** Applied Machine Learning, Data Structures/Algorithms, C Programming, 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, reducing storage costs by thousands of dollars annually
- Implemented multithreaded Python scripts to automate the transfer and deletion of 100,000+ call recording files from Twilio to an AWS S3 Bucket, efficiently sourcing, analyzing, and managing large volumes 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 in a development environment to validate the functionality, performance, and reliability of the new storage solution in offloading recordings to S3

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

Sep. 2023 – Apr. 2024

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, providing tailored support to enhance concept understanding and academic performance
- Led biweekly sessions to address students' code, address questions, explain concepts, and provide assignment overviews, leading to improved student comprehension and success

PROJECTS

Schmidt-Samoa Cryptosystem: Utilized C, Linux, and GMP to implement the Schmidt-Samoa algorithm, developing executables to ensure file privacy and security. These executables generate asymmetric key pairs, encrypt user-specified files, and decrypt encrypted files

Lempel-Ziv Compression: 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

Trivia Game Maker: 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

Technologies and Frameworks: React.js, Next.js, Node.js, Express.js, Pandas, NumPy, Scikit-Learn, REST APIs

Tools: MongoDB, Firestore, Git, Linux, Google Workspace, Figma, Jupyter, Amazon Web Services, Asana, Jira, Notion

Core Competencies and Interests: Cloud Computing, Machine Learning, Object Oriented Programming, DevOps, Frontend, Backend, and Full Stack Development, Data Analytics, API, Agile/Scrum, Big Data

LEADERSHIP AND ORGANIZATIONS

Creative Tech Design at UCSC: President of student organization, led and coordinated program tasks amongst a team of 20 officers, fostering teamwork and collaboration, and orchestrating 10+ events, fundraisers, panels, and workshops

Tech4Good Research Laboratory: Designed and developed 15+ responsive and interactive frontend components for 5 web applications, using HTML, SCSS, and Typescript, streamlining user interactions and enhancing usability

CodePath: Participated in mentorship, career prep, and technical interview prep course

Develop for Good: Co-leading a volunteer development effort for a social impact project