

# 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

**Cache Eviction Policies Simulator:** Hands-on simulator demonstrating four cache eviction policies, FIFO, LRU, MRU, and Clock, in a fully associative cache model. Using a linked list for data storage, the frontend (React.js) and backend (Java, Spring Boot) manage cache replacement and track item retrieval status.

**Schmidt-Samoa Cryptosystem:** Command-line tools developed in C, Linux, and GMP that implement the Schmidt-Samoa cryptographic algorithm. Enable file privacy and security through the generation of asymmetric key pairs, as well as file encryption and decryption.

**Trivia Game Maker:** Full-stack application for users to create, manage, and organize trivia cards that dynamically integrate into a responsive Jeopardy board. Utilizes React.js, Express.js, Node.js, MongoDB, and Firestore.

## 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