

SHREYA SUNDAR

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EDUCATION

University of California, Santa Cruz | Bachelor of Science, Computer Science

Sep 2021 - Jul 2024

- Coursework: Data Structures and Algorithms, Computer Systems and C Programming, Applied Machine Learning, Principles of Computer Systems Design, Database Systems, Software Engineering, Advanced Programming (C++)

SKILLS

Programming Languages: Python, JavaScript, C, C++, Java, SQL, HTML, CSS

Frameworks and Libraries: React.js, Next.js, Node.js, Express.js, Pandas, NumPy, Scikit-Learn

Tools: MySQL, MongoDB, Firestore, Git, Linux, Google Workspace, Microsoft Office, Figma, Jupyter, Amazon Web Services

WORK EXPERIENCE

Software Engineer Intern | Realtor.com

Jun 2024 - Aug 2024

- 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 large amounts of call recording files from Twilio to an AWS S3 Bucket, and delete call recordings within Twilio, utilizing multithreading to efficiently handle large amounts of audio files
- Designed and 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 | UC Santa Cruz Genomics Institute

Nov 2022 - May 2024

- 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 and executed unit tests, ensuring component functionality and computed data reliability

Computer Science Tutor | UC Santa Cruz - Baskin School of Engineering

Sep 2023 - Apr 2024

- Supported 50+ undergraduate students as a tutor for Data Structures and Algorithms and Machine Learning Basics
- Debugged students' code, addressed questions, explained concepts, and provided assignment overviews

PROJECTS

Schmidt-Samoa Cryptosystem | C, GMP | [Github](#)

- 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 | [Github](#)

- 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 | [Github](#)

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

ORGANIZATIONS

President | Creative Tech Design

- Led and coordinated program tasks amongst a team of 20 officers, fostering teamwork and collaboration
- Orchestrated events, fundraisers, panels, and workshops, providing valuable learning for 200+ undergraduates

Developer and Designer | 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
- Implemented data storage and retrieval functionality through Firestore, enabling personalized user experiences