SHREYA SUNDAR

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SKILLS

Programming Languages: Python, JavaScript, C, C++, SQL, HTML, CSS
Frameworks and Libraries: React.js, Node.js, Express.js, Pandas, NumPy, Scikit-Learn
Tools: MySQL, MongoDB, FireStore, Git (Github), Linux, Google Suite, Microsoft Office, Figma, Jupyter

EDUCATION

University of California, Santa Cruz | Bachelor of Science in Computer Science   **July 2024**
- Coursework: Data Structures and Algorithms, Computer Systems and C Programming, Applied Machine Learning, Principles of Computer Systems Design, Database Systems, Introduction to Software Engineering

WORK EXPERIENCE

Software Engineer Intern | Realtor.com   **Jun 2024 - Present**
- Spearheading a solution to offload call recordings of agent/consumer conversations from Twilio to AWS S3, aimed at reducing storage costs by over $100,000 annually while enhancing data management
- 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
- Conducting extensive testing of the offloading of recordings to S3 in a development environment, to verify the functionality and reliability of the new storage solution

Software Developer Intern | 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 | <u>Github</u>
- 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 | <u>Github</u>
- 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 | <u>Github</u>
- Developed a comprehensive full-stack application for users to create and manage trivia cards that can be dynamically integrated into a responsive Jeopardy board
- Integrated RESTful API calls to allow users to add, edit, and delete cards, ensuring smooth data retrieval, resulting in an enhanced user experience with real-time updates and interactions within the application

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, allowing for personalized user experiences