Gauri Bahl

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Education

University of California, Berkeley May 2026
Bachelors of Arts, Computer Science

Technical Skills

Languages: Python, Java, JavaScript, SQL, C, R
Technologies: React, Node.js, MYSQL, MS Suite, Google Suite
Relevant Coursework: Structure and Interpretation of Computer Programs, Differential and Integral Calculus of Functions within one Variable, Data Structures, Algorithms

Professional Experience

Codify - Art Curation August 2022 - December 2022
Berkeley, CA

- Created an official platform for the Punjabi Art Collective (Berkeley Art Club) with e-commerce functionality (shop for art prints/pieces)
- Implemented React.js and Stripe API to allow users to shop for art pieces
- Showcased work of Artists and online store for merchandise and fundraise

Dr Dubey - Research Assistant July 2021 - September 2021
Delhi, India

- Assisted Dr. Dubey on the use of AI in the context of environmental science; authored paper "Computational Ecology as a Tool for Studying Habitat Use: The Influence of Morphology of Seabirds on Habitat Partitioning"
- Utilized data visualization and quantitative analysis tools in python and R to determine the relationship between computational ecology and seabirds' habitats
- Submitted the paper to the Quest Journal

USC: Explore Engineering - Summer Program June 2021
Los Angeles, CA

- Designed 2D and 3D bridges using software tools. Co-authored 'The Design Process of Structures' report, focusing on bridge stability and adaptation to geographical factors
- Created a circuit for COVID-19 symptom detection. Documented the design process in 'The Design Process of Commercial Circuits' report, featuring an interactive circuit for clarity
- Developed a three-stage rocket for CO2 capture. Contributed to 'Rocket Design, Capturing and Processing CO2' report, addressing carbon sequestration and software troubleshooting

Projects

MemoBot | *Python, Discord API* July 2023 - August 2023

- Developed a Discord bot to enhance message organization within servers coded in Python
- Enabled users to interact with the bot through commands like saving, categorizing, showing, and deleting messages
- Used asynchronous functions, iteration, string and list manipulation

AirQComputing | *Python, OpenAQ API, Requests, Pandas, Matplotlib, PySimpleGUI, Git* May 2023 – Present

- Implemented an air quality analysis project using Python, leveraging the OpenAQ API for data retrieval
- Developed a user-friendly interface using PySimpleGUI to enable user input for personalized data fetching
- Utilized Matplotlib and Plotly libraries to create visually appealing and informative data visualizations, facilitating trend identification and pattern analysis

Typing Modulator | *Python* September 2022

- Developed a program that measures typing speed in real-time inspired by typeracer
- Implemented typing autocorrect, a feature that attempts to correct the spelling of a word after a user types it
- Used abstraction, recursion, string and list manipulation