

Jagroop Singh

jagroopsingh1936@gmail.com | (707) 631-1029 | [LinkedIn](#) | [Github](#) | [Portfolio](#)

EDUCATION

California State University, Sacramento

Expected: December 2026

Bachelor of Science, Computer Science

GPA: 3.5

Coursework: Data Structures and Algorithms, Computer Software Engineering, Discrete Structures In Computer Science, Assembly Programming, Introduction To Programming, System Programming in Unix, Object-Oriented Graphics Programming, Database Management Systems, Computer Organization

EXPERIENCE

CTI Micro-Internship, Fastify Web Framework

August 2024 - October 2024

- Investigated the Fastify codebase and provided a **low overhead solution** for implementing custom logger attributes by analyzing best practices used by Pino-HTTP which served as the inspiration for this issue
- Worked under the mentorship of an industry peer to efficiently integrate structured logging enhancements while ensuring minimal performance impact and alignment with Fastify's design principles.

PROJECTS

Tutoring Company Website | [Github](#)

August 2024 - December 2024

- Led a team of 8 students in developing a dynamic and user-friendly website for a tutoring startup
- Used **Agile methodology** to efficiently build our project and to track our progress as a team
- Documented every phase of the **Software Development Life Cycle** and responded to changing demands from the client in a productive manner
- Utilized: Express.js, React.js, Node.js, MongoDB, Axios

Mental Health Journal | [Github](#)

January 2025 - In Production

- Collaborated with a team of four to develop an interactive **mental health journaling website** for Hornet Hacks 2.0
- Designed and implemented features for mood tracking, goal setting, and journal prompts
- Used Supabase Auth, ensuring seamless data processing and user interaction
- Utilized: SvelteKit, Supabase, Typescript, PostgreSQL

Domestic Violence Data Analysis Website | [Link To Website](#) | [Github](#)

November 2024 - January 2025

- Deployed interactive website using **advanced visualizations** and exploration of domestic violence trends
- Integrated **12 engaging graphs** to enable seamless data exploration and user interaction
- Developed an appealing and easy to use UI to enhance site functionality
- Utilized: Python, Plotly, Dash, Pandas, NumPy, Scikit-Learn, Bootstrap

NYC Energy Efficiency Dashboard | [Github](#)

December 2024 - February 2025

- Analyzed NYC's energy usage data to develop interactive dashboard highlighting energy efficiency metrics
- Created an inviting website with informative data visualizations
- Utilized: Python, Plotly, Dash, Pandas, NumPy

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, Typescript, C, PHP, SQL, HTML, CSS

Frameworks/Libraries: Node.js, Express.js, React.js, Svelte/SvelteKit, Fastify, Django, Axios, Bootstrap, Dash, TailwindCSS, Flask

Tools: Linux, Git, MongoDB, PostgreSQL, MySQL, Jira, Render, Vercel, Supabase

ACTIVITIES

Computing Talent Initiative (CTI)

June 2024 – Present

Data Structures and Algorithms Club

August 2022 – Present