

JAY TRIPATHI

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SUMMARY

Studying Computer Science B.S. University of California: Santa Cruz

3.8 GPA, Expected June 2026

Relevant Coursework: Data Structures and Algorithms, Intro Software Engineering, Full Stack Web Development I and II, Compiler Design, Distributed Systems, Haskell Programming, Computer Systems, Computer Architecture

PROFESSIONAL EXPERIENCE

Analog Devices - Data Engineer Intern

June 2025 - September 2025

Technologies Used: MS SQL Server, PowerBI, MS SSIS

- Automated recurring SQL data-quality checks across ADI's enterprise data warehouse, enabling continuous validation of record accuracy, integrity and other data metrics.
- Designed SSIS pipelines to execute quality checking queries stored in a metadata table, allowing for scalability.
- Integrated the pipeline with PowerBI, generating real-time dashboards and visualizations that improved visibility into data health for analytics teams.

Caminosoft AI, Inc. - Programming Intern

June 2024 - September 2024

Technologies Used: Python, Flask, Razor C# Framework, SQL, Postman, Swagger, Streamlit

- Built a Flask/Python backend to migrate files for product frontend, allowing for data transfer automation.
- Developed Streamlit chart visualization dashboard for visualizing system metrics and providing data insights.
- Collaborated in daily scrum with a 20 member team, applying GitHub version control and using Azure DevOps task management to support the Agile method.

Analog Devices - Software Development Intern

June 2023 - September 2023

Technologies Used: C#, .NET, SignalR, JavaScript, GitHub, Jira

- Engineered a C# Microsoft Word plugin to automate microprocessor datasheet graph generation, reducing documentation creation time by 90%.
- Streamlined documentation writing workflow by integrating ADI's proprietary Word plugin with graph creation web interface frontend using SignalR for real-time data transfer.
- Refactored plugin code to support new data types required for the new functionality.

SKILLS & INTERESTS

Programming Languages	Python, JavaScript/TypeScript, PostgreSQL, C, C#, C++, Bash, RISC-V, Java
Skills	Multithreading, Database Design, Data Engineering, GitHub, REST API, Docker
Frameworks & Tools	React/React Native, NodeJS, PostgreSQL, FastAPI, Postman, SignalR, Pandas
Interests	Coding, PC Building, Music, Gaming, Weightlifting

PROJECTS AND EXTRACURRICULARS

UCSC Baskin Engineering - Tutor/Grader Tutored students for Python introductory course's concepts and homework assignments. Graded students' exams and homeworks for various classes, including free response and multiple choice questions.

UCSC Menu App Built a React Native (TypeScript) that web-scrapes UCSC dining hall menus, providing a responsive UI to view daily UC Santa Cruz dining hall/cafe menus. ([Link](#))

Polynomial (Discord Activity/Web UI) — Collaborated with a team of 5 to build a TypeScript React project-management platform with Discord Activity SDK integration, enabling seamless authentication and collaboration.

React Messaging App - Developed a Slack-like messaging platform in React.js, with workspace channels, image sharing, and user authentication.