

Austin Cavanagh

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TECHNICAL SKILLS

Languages: JavaScript/TypeScript, Python, HTML5, CSS, SQL

Technologies: React/Redux, NodeJS/Express, MongoDB, PostgreSQL, Jest, Git, Webpack, Tailwind, Pandas

Miscellaneous: Agile Methodology, Jira, Docker, Kubernetes, AWS (SQS, EC2, S3), GitLab CI/CD

EXPERIENCE

React Query Rewind (Open Source)

San Francisco, CA

Software Engineer

2023 – Present

- Engineered an open-source extension of TanStack Query, introducing time-travel debugging capabilities for enhanced React server state management, simplifying developer workflows and reducing error resolution time
- Designed custom React hooks to monitor and transmit state changes to Chrome DevTools via content scripts and background scripts, enabling data visualization for more efficient development and troubleshooting
- Implemented client-side fetch logic to monitor query performance metrics such as execution time, success, failure, and retry rates, facilitating data-driven optimizations to increase application efficiency
- Developed a Jest testing suite for unit, integration, and system tests, achieving 80% coverage and integrating with CI/CD pipelines to validate component functionality and system interactions, ensuring code reliability

Goldratt Consulting

San Francisco, CA

Strategy & Implementation Consultant

2020 – 2023

- Utilized SQL to migrate engineering documentation for a commercial spaceflight company, resulting in improved task dependency representation, scope elimination, and a 6-month reduction in the project timeline
- Produced VBA scripts to automate the creation of 10 key fleet health metrics for 15 aircraft, reducing metric production time by 90% and informing strategic decisions in weekly briefings to the Colonel
- Devised and implemented a scheduled maintenance solution for a fleet of 8 Air Force C-130s, resulting in a 42% increase in available aircraft and a 30% reduction in maintenance WIP over a 6-month period

OPEN SOURCE

Ticker Tracker (Open Source)

San Francisco, CA

Software Engineer

2023 – Present

- Created a financial data aggregation service with Node.js and Express for asynchronous operations with the Yahoo Finance API and Pandas, ensuring optimal performance in retrieving and processing market data
- Integrated Python with the backend by executing Python scripts via Node.js' `child_process` module, boosting the system's functionality and expanding its data fetching and analysis potential
- Deployed a PostgreSQL database within a Docker container on Google Cloud, optimizing data management and ensuring dynamic scalability of storage to elevate performance and reliability

Cerebro (Open Source)

San Francisco, CA

Software Engineer

2023 – Present

- Integrated OpenAI's API with a personal AI tutor, leveraging chat completion for interactive communication and function calls in API requests to dynamically generate JSON objects for flashcards and quizzes
- Optimized Webpack configuration with hot module replacement for agile development, and code bundling and minimization techniques in production, boosting performance, load efficiency, and deployment reliability

EDUCATION

University of California, Berkeley, Haas School of Business

Berkeley, CA

Bachelor of Science in Business Administration

ADDITIONAL

Interests: Searching for the best pizza, training my dog, motorcycles, snowboarding, and playing chess