Austin Cavanagh

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TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, HTML5, CSS3, SQL
Technologies: React, Next.js, Redux, Vue, Svelte, NodeJS, Express, Three.js, Prisma, MongoDB, PostgreSQL, Jest, Cypress, Webpack, Rollup, Tailwind, Pandas
DevOps & Tools: Docker, Kubernetes, GitLab CI/CD, Stripe, PayPal, Postman, Git, AWS (EC2, ECR, RDS, S3)

EXPERIENCE

Bullflow.io   **San Francisco, CA**
Software Engineer   Jan. 2024 – Present
- Leveraged APIs to retrieve real-time stock market data and developed algorithms to detect trade types (blocks, splits, sweeps), analyzing options flow to identify trading opportunities and market sentiment
- Migrated the existing JavaScript codebase to TypeScript, leveraging strict typing and type features to reduce runtime errors by 30%, enhance code clarity, and significantly improve overall maintainability and reliability
- Developed a Jest and Cypress testing suite for unit, integration, and system tests, achieving 90% coverage and integrating with CI/CD pipelines to validate component functionality and system interactions

React Query Rewind (Open Source)   **San Francisco, CA**
Software Engineer   Sep. 2023 – Present
- Engineered an extension of TanStack Query with 1,000 weekly downloads, introducing time-travel debugging for enhanced React 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 service workers under Manifest V3, enabling data visualization for 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

Crafts by Jules (Freelance)   **San Francisco, CA**
Software Engineer   Jan. 2024 – Mar. 2024
- Built an eCommerce website with Next.js, leveraging React Server Components to optimize server-side rendering, improve page load times, and enhance user experience with dynamic routing and state management
- Integrated Stripe and PayPal for seamless user payments, implementing embedded checkout and webhooks to capture completed orders in real-time, streamlining the payment process and enhancing transaction efficiency
- Utilized AWS services including EC2 for scalable computing, ECR for container management, RDS for relational databases, SES for email dispatch, and S3 for storage, to build a robust and scalable infrastructure

Goldratt Consulting   **San Francisco, CA**
Strategy & Implementation Consultant   Sep. 2020 – Feb. 2023
- Employed 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 key 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

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, riding motorcycles, snowboarding, and playing chess