

Weston Clark

Software engineer building full stack web applications.

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Skills

JavaScript, TypeScript, HTML, CSS, Tailwind, React, Redux, Next.js, Node.js, Express, MongoDB, PostgreSQL, Prisma, tRPC, SQL, NoSQL, Redis, Authentication, Docker, AWS(EC2, S3, and Lambda), Chart.js, Jest, Supertest, React Testing Library, Webpack, Vite

Experience

Software Engineer - Sept 2022 - Present

Watchdogs (Open Source) - AWS Metrics Analyzer

- Created and developed an open source tool for developers that enables simple monitoring of AWS Lambda function metrics with minimal configuration, helping developers who are transitioning to a serverless backend architecture.
- Designed and styled interactive chart components for a multi-page web application and established a consistent and scalable front-end system by utilizing custom React hooks and reusable JSX components.
- Collaborated with a team of engineers in a SCRUM-like environment, coordinating roles and tasks to ensure the timely development of the codebase and ensuring the product was launched on time.
- Implemented a Redis caching system to optimize application performance by reducing the number of redundant API calls and improving fetch response times for frequently accessed data.
- Constructed a dynamic multi-container environment using Docker, providing a consistent developer experience across diverse environments and simplifying the deployment process.
- Oversaw deployment of the application using Heroku and utilized the Redis Cloud Enterprise Plugin to enable high availability and automatic failover of Redis instances, ensuring high reliability and availability..

Mix Notes (Open Source) - File Sharing App for Musicians

- Developed a web application for sharing audio files between music producers and musicians that focuses on adding comments to audio files, streamlining the client feedback and revision process.
- Designed a secure file storage system that utilized AWS S3 Buckets and pre-signed urls to store high quality, lossless audio files for client archival and distribution.
- Implemented strict type checking using TypeScript, tRPC, Prisma, and Zod to ensure accurate variable typing at both compile time and runtime, resulting in reduced bugs, a more robust codebase, and increased developer productivity.
- Transitioned the entire codebase to utilize React Server Components from the Next.js framework, minimizing JavaScript bundle size, optimizing client performance, and improving Search Engine Optimization.

Tour Manager / Audio Engineer - Jan 2013 - Present

Octane AVL, LAD Designs, Weston Clark Mixing.

- Mixed live audio for concerts of various scales, from small clubs to stadiums, collaborating with both musicians and local venue staff to ensure a seamless schedule flow that included load-in, setup, soundcheck, showtime, and load-out.
- Coordinated with festival organizers and band members to manage travel schedules, technical requirements, and hospitality needs, guaranteeing a successful event for all parties involved.
- Recorded and mixed bands in a studio environment using cutting-edge recording equipment and software, delivering professional sounding, release-ready recordings that are ready to be uploaded to streaming providers.
- Designed and installed large scale audio systems for concert venues and mobile touring systems including speakers, digital audio consoles, networking devices, microphones, and musical instruments.

Education

Codesmith - Advanced Residency for Software Engineering

Conservatory of Recording Arts and Sciences - Audio Recording and Production Immersive

Interests

When I'm not building software, I'm usually writing and recording music, or deep in the latest fantasy novel.

Talks / Publications

- **React Router** | Tech Talk Series | 2023
- **Streamline AWS Metrics with Watchdogs** | Medium