

# Weston Clark

Software engineer passionate about building scalable and accessible 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, Redis, Authentication, Docker, AWS(EC2, S3, and Lambda), Chart.js, Jest, Supertest, React Testing Library, Webpack, Vite

## Experience

### Software Engineer | Watchdogs (*Open Source*) - AWS Lambda Observability Tool

Feb 2023 - Present

- Created the AWS Lambda Observability Tooling and Dashboard, which helps development teams effectively monitor their Lambda functions for invocations, runtime durations, errors, and throttling events.
- Designed the Interactive Metrics Visualization Dashboard utilizing modern React practices, like hooks and context API, to allow development and performance engineering teams to view charts displaying Lambda performance data.
- Built the Express server and constructed API routes using RESTful practices in order to efficiently process HTTP requests while maintaining scalability and adaptability for future expansions..
- Collaborated with cross functional teams to establish the core API contracts for the Metrics Aggregation Service and the Interactive Metrics Visualization Dashboard, maintaining team alignment by using effective documentation and communication.
- Implemented a Redis caching system to optimize application performance by reducing the number of redundant API calls and improving fetch response times by over 100% for frequently accessed data.
- Constructed a dynamic multi-container environment using Docker, providing a consistent developer experience across diverse environments and streamlining deployment and CI/CD processes.
- 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 the site maintained high reliability and availability.

### Audio Engineer | Weston Clark Mixing, Octane AVL

Jan 2013 - Feb 2023

- 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 including load-in, setup, soundcheck, showtime, and load-out.
- Designed and installed large scale live audio systems for concert venues and mobile touring systems including speakers, digital audio consoles, networking devices, microphones, and musical instruments.
- Coordinated with festival organizers and band members to manage artist and crew travel schedules, technical requirements, and hospitality needs, guaranteeing a smooth and successful event and travel for all parties involved.

## Projects

### Mix Notes - File Sharing App for Musicians

- Developed a web application for sharing audio files between music producers and musicians with a focus on adding comments to audio files, streamlining the client feedback and revisions for audio deliverables.
- Designed a secure file storage system that utilizes AWS S3 Buckets and pre-signed urls to store high quality, lossless audio files for client archival and distribution following best practices for security and file optimisation.
- 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.

## 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