Weston Clark

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Software engineer passionate about building scalable and accessible full stack web applications.

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 in serverless architecture patterns for invocations, runtime durations, errors, and throttling events.
- Designed the Interactive Metrics Visualization Dashboard utilizing modern React practices, including hooks and context, to allow development and performance engineering teams to view extensive charts for Lambda performance data
- Collaborated with cross functional teams to establish the core API contracts for the Metrics Aggregation Service and the Interactive Metrics Visualization Dashboard, to maintain 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 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.

Audio Engineer | Weston Clark Mixing, Octane AVL, LAD Designs   _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 that included load-in, setup, soundcheck, showtime, and load-out.
- 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.
- Coordinated with festival organizers and band members to manage 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 that focuses on adding comments to audio files, streamlining the client feedback and revision process.
- Designed a secure file storage system that utilizes AWS S3 Buckets and pre-signed urls to securely 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.

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