

Weston Clark

Full Stack Software Engineer

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Skills

Languages: JavaScript, TypeScript, HTML, CSS, C++

Technologies: React, Redux, Next.js, Node.js, Express, SQL, NoSQL, Docker, AWS (EC2, S3, Lambda, DynamoDB, RDS), Chart.js, Tailwind, Jest, Supertest, React Testing Library, Webpack, Vite, Redis, Authentication, Github, Github Actions

Experience

Software Engineer | Watchdogs

Feb 2023 - Present

- Developed an AWS Lambda Observability Tool, leveraging modern React practices like hooks and context for real-time visualization of Lambda performance data through interactive charts and tables.
- Designed RESTful API routes for user authentication and other database interactions within an Express server, utilizing its middleware system, robust routing capabilities, and asynchronous request handling, to process hundreds of requests per day.
- Enhanced application performance by implementing a Redis caching system, utilizing data expiration and in-memory storage to eliminate redundant API calls and achieve a 100+% improvement in response times for frequently accessed data.
- Utilized Docker to build a multi-container environment, encapsulating application dependencies within Docker images to ensure a consistent developer experience and streamline deployment and CI/CD processes.
- Managed application deployment on Heroku, incorporating the Redis Cloud Enterprise Plugin to establish high availability and automated failover mechanisms for Redis instances, thus guaranteeing exceptional reliability and uninterrupted availability.
- Created documentation and ReadMe files in collaboration with cross functional teams to establish the core API contracts and schemas for the API service, resulting in a more streamlined experience for both users and developers.
- Open Source Product developed under tech accelerator OS Labs.

Audio Engineer | Octane AVL

Jan 2013 - Feb 2023

- Oversaw and 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 flow of schedule including load-in, setup, soundcheck, showtime, and load-out.
- 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.
- Designed and installed large scale live audio systems for concert venues and mobile touring systems including various hardware components, digital consoles, musical instruments, and networking devices.
- Provided support and troubleshooting for advanced digital audio systems often under strict time pressure and in front of big clients and crowds.

Projects

Mix Notes

- 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 codebase to utilize React Server Components from the Next.js framework, minimizing JavaScript bundle size, optimizing client performance, and improving Search Engine Optimization.

Education

AWS Cloud Practitioner Certification

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