Weston Clark

Full Stack Software Engineer

970-214-9000
westoclark@gmail.com
www.westonclark.dev
Portland, OR

Skills

Languages: JavaScript, TypeScript, HTML, CSS, C++
Technologies: React, Redux, React Native, Next.js, Node.js, Express, SQL, NoSQL, AWS (EC2, S3, Lambda, DynamoDB, RDS), Oracle, Redis, Docker, Tailwind, Jest, React Testing Library, Webpack, Expo, Authentication, Git, CI/CD,Github Actions, Q-SYS

Experience

Software Engineer at Watchdogs   *Feb 2023 - Present*

- Lead the development of the AWS Lambda Observability Tool to provide real-time visualizations of critical Lambda function performance data like function invocations, function runtime, throttles, and error logs.
- Designed beautiful front end user interface components in the form of engaging and interactive charts, making use of React, Chart.js and various other open source frameworks to create a responsive and pleasant user experience.
- Engineered RESTful API routes for user authentication, database querying, and third party API interactions through an Express server, managing hundreds of daily requests with a focus on asynchronicity.
- Developed a comprehensive PostgreSQL database schema and crafted custom SQL queries to optimize the storage of user data and assets, ensuring efficient writing and reading.
- Implemented unit tests for both the front end and back end using Jest, SuperTest, and React Testing Library, making for a more robust codebase and streamlining the development process.
- Open Source Product developed under tech accelerator OS Labs.

Audio Software Engineer at Weston Clark Mixing LLC   *Jan 2019 - Feb 2023*

- Implemented custom user interfaces and back end logic for wall-mounted control panels enabling users to easily route and distribute audio throughout buildings and restaurants using the Q-SYS control system.
- Developed custom audio software for recording studios in the form of VST plugins and mobile applications, providing real-time audio sampling and processing with sub-1ms latency and lossless audio quality.
- Provided technical support services for live concerts, covering areas such as networking, audio mixing, lighting programming, video capture, and production management for venues and artists of various sizes.

Technical Director at Westside AJC   *Jan 2018 - Jan 2019*

- Collaborated with cross functional design and finance teams to translate creative design plans into functional technical requirements, budgets, and workflows, ensuring seamless execution of creative vision.
- Managed, scheduled, and trained a team of 50 staff and volunteers to ensure proper staffing and execution of technical positions for live concerts and events.

Open Source

Digital Hippo - Full Stack E-Commerce Website

- Developed a full-stack marketplace for digital assets, featuring an admin dashboard, email verification system, and a robust checkout/payment system.
- Integrated Stripe for secure payment handling and utilized Payload CMS for secure management of digital assets, user accounts, and permissions.

Simple EQ - Audio Equalizer Plugin

- Used C++ and the JUCE framework to build a fully parametric EQ plugin complete with low and high pass filters, slope control, one fully parametric eq band, and a real time frequency spectrum analyzer.
- Implemented audio DSP processing using a combination of built-in classes and custom audio DSP algorithms and designed a professional graphical user interface consisting of various sliders, knobs, and visualizers.

Education and Certificates

- **AWS Cloud Practitioner Certificate**
- **Conservatory of Recording Arts and Sciences**

Interests

When I'm not coding or solving problems, you can find me recording music, or reading the latest Stephen King novel.