

# Weston Clark

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## SKILLS

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- **Languages:** TypeScript/JavaScript, C/C++, Go
- **Technologies:** Node.js, Express, Fastify, MySQL, PostgreSQL, Docker, Kubernetes, Skaffold, Helm, ArgoCD, GitOps, CMake, Git, GCP, AWS, RabbitMQ, REST API, React.js, Tailwind, Next.js, Jest, Vitest, JUCE

## WORK EXPERIENCE

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### Software Engineer II

May 2024 — Present

Madwire

- Owned shared services and infrastructure for user, account, and permission management across multiple software products
- Developed the identity management system with Keycloak integrated with custom auth libraries and middleware
- Designed a custom role-based permission system to authorize user actions and resource access across products
- Built automated data pipelines using webhooks and scripts to sync data across systems and provide accurate reporting
- Worked across teams to coordinate migrations and integrations with new services and infrastructure
- Migrated legacy PHP endpoints to Node.js services, reducing complexity, improving performance, and reducing cost
- Optimized testing suites and CI/CD pipelines to speed up deployment times and reduce compute cost

### Audio Systems Engineer

Jan 2019 — May 2024

Octane AVL

- Designed audio systems for touring theatrical productions including speakers, audio consoles, and networking devices
- Wrote custom real-time software and scripts for synchronizing musical performances with production infrastructure
- Provided recording and music production services in state of the art recording studios for bands of all sizes

### Technical Director

Jan 2018 — Jan 2019

Westside AJC

- Led the production team of A/V operators and musicians for a church of 5,000 weekly attendees
- Trained non technical volunteers on operating theatrical level audio, video, and lighting equipment
- Collaborated with design and finance teams to turn creative ideas and budgets into executable technical plans

## PROJECTS

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### Watchdogs.io

[www.github.com/oslabs-beta/Watchdogs](https://www.github.com/oslabs-beta/Watchdogs)

- An observability platform built for real-time monitoring of AWS Lambda performance metrics and logging
- Integrated with Cloudwatch to retrieve performance data and display it using interactive dashboards and charts
- Designed an internal caching system with Redis to reduce third party API costs and improve page load times
- Open source project developed under OSLabs

### Fader Keys

[www.github.com/westonclark/fader-keys-source](https://www.github.com/westonclark/fader-keys-source)

- A desktop application for controlling fader movements in digital audio workstations via MIDI CC messages
- Deployed a custom online store and user dashboard for purchasing, downloading, and authorizing the application
- Created a custom license key generation, storage, and validation system for software authorization
- Application built with C++ and Objective C++, website built with Next.js, Stripe, Clerk Auth, and Neon DB

### Multi Effect Audio Plugin

[www.github.com/westonclark/multi-effect-plugin](https://www.github.com/westonclark/multi-effect-plugin)

- An effect processor for applying DSP effects to audio recordings like phaser, chorus, overdrive, filters, and EQ
- Built using C++, the JUCE framework, and Xcode build tools

### HTTP Server

[www.github.com/westonclark/http-server-c](https://www.github.com/westonclark/http-server-c)

- An HTTP server written from scratch in C with no external libraries or frameworks
- Handles TCP socket connections, HTTP request parsing, and serves static HTML files from the file system

## EDUCATION

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### Conservatory Of Recording Arts and Sciences

Oct 2013 — May 2014

*Audio Recording and Production Certification*