

Jonathan Havens

Senior Software Engineering Leader

Programming since 2016 · Las Vegas, NV

[LinkedIn](#) · [GitHub](#) · [Email](#)

I build dependable systems and teams. Pragmatic architecture. Hands-on delivery. Clear process.

Experience

Roberts Communication Network (RCN) — Senior Software Engineer

2021–Present

Lead core backend systems for broadcast operations with a focus on reliability and clarity. Own scheduling and data services. Maintain and upgrade legacy systems (10–15 years) while modernizing interfaces and behavior. Set engineering standards and mentor engineers with a sincere investment in their success.

Contracted — Software Engineer

2016–2021

Built and maintained backend services and data workflows for two life/health insurers. Delivered APIs and integrations with emphasis on correctness, traceability, and reducing operational toil through targeted automation.

Highlights

- Weighted scheduling algorithm written with event-sourcing based persistence, including rollback capabilities, auditing, and dead-simple debugging. Successfully shipped in ~4 months with ~350 tests where coverage was previously non-existent. "Skeletonized" test suite encoding business constraints provided $\geq 95\%$ schedule parity vs. validated baselines on initial pass. Only small adjustments were needed to reach 100%.
- High performance REST API built with Eloquent for $\leq 200\text{ms}$ response times using MySQL 5.6 for complex queries across tables containing 100s of millions of rows
- Queue-based workflows implemented in a multitude of projects with automated fault handling, reliability under load, and enhanced with Laravel Horizon where appropriate.
- SDK written for TagVS media performance system for wall of TVs in broadcast control room, enabling signal routing and status monitoring.
- Schema design, indexing, caching, and query optimizations across MySQL (5.6 & 8+), SQL Server (2016+), Postgres, and Redis backends.
- Played a mentor role to junior, senior, and managing engineers alike. My extensive Laravel knowledge has played a day-to-day role in helping team members grow their skills and confidence. It also provides deep insight when learning new frameworks and languages. The skills and ideas in the Laravel source code provide well-established principles that transcend specific technologies. I use these patterns to immediately build strong mental models when learning new ecosystems, from .NET to Clojure, Typescript to Rust, and beyond.

Skills

Languages

PHP, Node/TypeScript, C#, SQL, Bash, PowerShell, Rust

Data

MySQL, Postgres, Redis, schema design, indexing, caching

Dev Ops

Docker, GitHub Actions, Nginx, Cloudflare, Laravel Forge

Also

C#, Rust, Bash, PowerShell

Practices

Communication, Honesty, OO, SOLID, (non-religious) TDD, 1st principles, Event Sourcing, Polyglot