



# RYAN LOWE

Full-Stack TypeScript Engineer • Tech Lead

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## SUMMARY

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Full-stack engineering leader with 7+ years building scalable healthcare technology serving 30,000+ daily users. Advocate for type-first development and AI-assisted workflows. Expertise in TypeScript, React, Node.js, and cloud infrastructure with a philosophy of full-stack ownership—from Terraform and CI/CD to databases and user interfaces.

## TECHNICAL SKILLS

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**Core Stack:** TypeScript • JavaScript • Node.js • React • Next.js • Tailwind CSS

**Infrastructure:** Terraform • Azure DevOps • AWS (EKS, Fargate, Lambda) • Docker • CI/CD • PostgreSQL • Redis

**Tools & Practices:** Bun • Biome • Drizzle ORM • Zod • TanStack • Git • API Design • Code Review

**AI-Assisted Development:** Strategic multi-tool approach—GitHub Copilot (IDE completions), Claude Code (test generation, agentic tasks), Codex (planning), Gemini (documentation)

## EXPERIENCE

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### Hugo Health | Remote

*Tech Lead, Product Engineering (2020) • Software Engineer III (2019) • Software Engineer I (2018) | May 2018 – Present*

- Own full-stack architecture for Hugo Connect application serving 30,000+ active users, including infrastructure (Terraform), CI/CD pipelines (Azure DevOps), and application development (TypeScript, Node.js, Next.js, React)
- Champion AI-assisted development across the organization, strategically selecting tools for optimal use cases while maintaining enterprise code quality standards
- Built distributed EHR integration system using AWS Fargate with XVFB-enabled Docker containers running Puppeteer, implementing random IP rotation to circumvent bot detection for patient-authorized health record retrieval across Epic, Cerner, and other platforms
- Architected dynamic branching survey system with visual builder featuring custom prescription lookups, interactive body maps, and complex conditional logic
- Optimized Docker images for Next.js applications, reducing build sizes by 80% and significantly improving deployment speed
- Led AWS cost optimization through EKS cluster consolidation and Fargate container improvements, achieving faster startup times and reduced network costs

### Stripe | Remote

*Full Stack Engineer (Contract) | March 2018 – May 2018*

- Developed reusable component library with flexible base input templates for payment processing interfaces

### Salesforce Development & IT Leadership | 2013–2017

*Saint Leo University • International Living Future Institute • Phillips Contracting • Lumenal Lighting*

Led enterprise application development and technology operations across multiple organizations. Managed cloud migrations, systems administration, and custom Salesforce application development.

### Systems & Network Administration | 2005–2013

*Vesta Property Services • CR Techs • Englewood On-line • Microtek*

Provided IT support, systems administration, and network management. Specialized in hardware troubleshooting and infrastructure support.

## PROJECTS

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**Blackjack Card Counting Trainer** — Complete blackjack engine with all standard actions (split, double, surrender), card counting trainer with beginner/intermediate/advanced modes, and multiple rule sets (Vegas Strip, Atlantic City, European).

**TTS CLI** — Text-to-speech command-line tool supporting 200+ voices across 100+ languages with adjustable rate and pitch. Cross-platform standalone executables for macOS, Linux, and Windows.

**Portfolio Site** — Built with Next.js 16 and React 19 with React Compiler enabled. Custom theming using Tailwind CSS 4 with OKLCH color space, animated UI with Framer Motion and reduced motion support.

## PERSONAL INFRASTRUCTURE

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Bare metal server hosted on Hetzner with automated Git-integrated deployments via Coolify and Nixpacks. Running production-grade services including PostgreSQL, Redis, MinIO (S3-compatible storage), Soketi (WebSockets), Gitea, Umami analytics, and Bugsink error monitoring.