

Nathan Stewart

Senior Full Stack Engineer & Technical Architect

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Granite City, IL (Greater St. Louis) | Central Time (US) | Remote

SUMMARY

Senior full stack engineer with 17+ years in IT, from DoD mainframe operations and enterprise middleware to shipping React/TypeScript products with AI integration at a Fortune-50 health-services company. Primary developer on 7+ production apps, owner of my team's CI/CD and GitOps architecture across 10+ apps, and an AI-native builder shipping LLM-powered features and custom MCP tooling.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Java, Groovy, SQL, Bash/Shell, Perl, HTML/CSS

Frontend: React 17–19, Next.js (App Router), Vite, Redux, Tailwind CSS v4, Material UI, HeroUI v3, Framer Motion, React Aria, Jotai, TanStack Query

Backend: Node.js, FastAPI, Spring Boot, REST APIs, microservices, IPC architecture, WebSockets

Data & Viz: PostgreSQL, Neon, SQLite, Drizzle ORM, InfluxDB, Databricks, Chart.js, Recharts, Nivo, Grafana (custom plugin dev)

Cloud & Infra: AWS (Lambda, ECS), Vercel, Kubernetes, Red Hat OpenShift, Docker, Podman, Nginx, Linux administration

CI/CD & DevOps: ArgoCD (GitOps), Jenkins / CloudBees (shared libraries), GitHub Actions (self-hosted runners), Kaniko, Helm, Apache Airflow, Nx monorepos, Backstage, RPM/DEB/Flatpak packaging

AI & Tooling: LLM integration (Anthropic, OpenAI), LangChain, AI SDK, Model Context Protocol (MCP), prompt engineering, ElevenLabs voice

Security & QA: Okta, Spring Security, SSL lifecycle management, SonarQube, Checkmarx

Platforms & Process: Web, Electron (desktop), React Native (mobile), CLI tooling · Agile/Scrum, i18n, SEO, web accessibility, ServiceNow

PROFESSIONAL EXPERIENCE

Software Engineering Advisor (Senior Full Stack) — Platform & Data Visualization Mar 2021 – Present Evernorth Health Services (Express Scripts) · Greater St. Louis · Hybrid

- Primary developer on 7+ production React applications (React 17–19, Next.js, Vite) backed by Spring Boot/Java and FastAPI/Python services — enterprise health-monitoring, incident analytics, and operations dashboards used daily by L2 teams.
- Own CI/CD and GitOps architecture for the team across 10+ applications: Jenkins shared libraries, ArgoCD deployments, GitHub Actions with self-hosted runner infrastructure, Kaniko image builds, Helm charts, and custom Docker base images on Kubernetes/OpenShift.
- Shipped AI-powered features in a FastAPI analytics service using LangChain with Anthropic and OpenAI — an AI chat assistant, AI-generated incident summaries, and suggested-action systems running in production.
- Led greenfield products end-to-end from wireframe to release: an AI insights dashboard, a mobile app's initial deployment (React Native), and Electron desktop tooling.

IT Engineer — Automation & Data Visualization Sep 2016 – Mar 2021 Evernorth Health Services (Express Scripts) · Greater St. Louis

- Designed and built enterprise data visualization platforms transforming backend infrastructure metrics into actionable dashboards, directly reducing MTTR.
- Created automated cloud deployment tooling used across engineering teams, replacing manual processes with self-service internal applications.
- Built an SSL certificate generation platform and an internal RPM repository management application for self-service package distribution.

- Engineered diagnostic and monitoring tools in TypeScript and Python, bridging legacy middleware systems with modern web interfaces.

IT Engineer — Middleware Infrastructure

Sep 2013 – Sep 2016

[Express Scripts](#) · [Greater St. Louis](#) · [On-site](#)

- Designed, engineered, and maintained middleware infrastructure supporting application integration across the enterprise.
- Built shell-based automation for log extraction, port monitoring, and deployment validation — cutting manual operations and improving reliability.
- Developed a port hijack detection system (Bourne Shell) that surfaced service conflicts before they caused production outages.

Engineer Associate QA

Oct 2012 – Sep 2013

[Express Scripts](#) · [Greater St. Louis](#)

- Provided IT infrastructure services and production support across enterprise environments, resolving moderate-to-high-complexity issues.
- Operated within the Operations production support team: delivered scheduled events, responded to outages, maintained compliance logs, and contributed new self-service tooling.

Computer Operator — Data Center & Mainframe Operations

Jan 2008 – Sep 2012

[Rock-Tenn](#) / [Smurfit-Stone](#), and [TechGuard Security](#) / [DoD Computing Center](#)

- Monitored enterprise infrastructure (Control-M, BMC Impact Explorer, SCOM) and 40 IBM MVS mainframe domains; managed Priority 1 incident response and resolution within strict SLAs.
- Ran nightly AS/400 and HP3000 backups, high-volume tape operations (1,500+ daily), and Data Center hardware support.

INDEPENDENT & CLIENT PROJECTS

ProtonShift — Linux Game Configuration Toolkit

[Electron](#), [Next.js](#), [React 19](#), [Tailwind v4](#), [HeroUI v3](#), [Python](#), [FastAPI](#), [AGPL-3.0](#)

Desktop app unifying Steam, Heroic (Epic/GOG), and Lutris libraries into one interface. Visual Gamescope command builder, MangoHud/ScopeBuddy editor, Proton/Wine management, save backup/restore, and a game-fixes database. The Electron main process bridges a React renderer with a Python FastAPI backend over IPC + HTTP.

q-ring — Secret Manager for AI Coding Agents

[TypeScript](#), [Node.js](#), [MCP](#) · [published on npm @i4ctime/q-ring](#)

Open-source keyring built for AI coding agents. Anchors credentials to the OS-native vault with quantum-inspired mechanics (superposition, entanglement, tunneling, teleportation). Exposes 44 MCP tools for Cursor, Kiro, and Claude Code; distributed via npm and Homebrew.

Bali Dewa — Tourism Business Platform (balidewa.vip)

[Next.js](#), [React](#), [Tailwind](#), [HeroUI](#), [i18n \(6 locales\)](#), [Neon Postgres](#), [Vercel](#)

Production client site for a Bali private-tour operator, delivered end-to-end from requirements to deployment. Multilingual tour catalog, WhatsApp booking flows, deposit handling, an admin dashboard with availability calendar, and SEO.

Groundrules — Instruction-File Studio for AI Agents (groundrules.dev)

[Next.js 16](#), [AI SDK \(Anthropic, OpenAI\)](#), [Drizzle ORM](#), [Neon Postgres](#) + [Neon Auth](#), [Jotai](#), [TanStack Query](#), [Polar billing](#)

Commercial SaaS: a visual studio for composing the instruction files that drive AI coding agents — CLAUDE.md, AGENTS.md, .cursor/rules, and system prompts — from structured, reusable blocks. Typed Drizzle/Neon data layer with subscription billing via Polar.

EDUCATION

B.S., Project Management — ITT Technical Institute · 2011–2013 · GPA 3.66 · National Technical Honor Society

A.A.S., Software Applications & Programming — ITT Technical Institute · 2007–2009 · GPA 3.8 · National Technical Honor Society