

Zack Whitson

Full-Stack Software Engineer | Next.js · TypeScript · Client Delivery

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PROFESSIONAL SUMMARY

Full-stack software engineer with an AI-native delivery workflow and project-based software and automation work dating to 2017, VETTR product ownership beginning in 2025, and paid full-stack client delivery since January 2026. Builds production SaaS and operational systems across TypeScript/Next.js, React, Python/FastAPI, PostgreSQL, APIs, payments, and automated QA. Sole engineer behind a large confidential multi-role platform and founder of CodeTruss. Prior operations leadership strengthens client communication and delivery judgment.

SELECTED SYSTEMS & IMPACT

CodeTruss - Release Assurance Platform: Built a multi-tenant Next.js and TypeScript product with Prisma/PostgreSQL, GitHub App/API integration, Stripe billing, provider-selectable LLM workflows, a database-backed job queue, 13 deterministic analyzers, and local-first evidence receipts.

Real Estate AI Search Platform: Hardened a PHP/Laravel and PostgreSQL search system connected to Python/FastAPI REST services, OpenAI interpretation, Pinecone semantic retrieval, and queued listing enrichment. Delivered 149 commits across SQL/query hardening, data resolution, regression coverage, and production search fixes.

Confidential Multi-Role Operations Platform: Sole engineer who designed and built the platform end to end using an AI-native workflow. The system uses Next.js, Supabase/PostgreSQL, Stripe, Twilio, REST APIs, reporting/PDF workflows, tier-gated authority, observability, and migration-replay CI; 393 API routes, 300 tables, 258 migrations, and 6,550 automated tests.

KIP - AI Operations Development Alpha: Developing a local-first AI operations platform with policy-controlled missions, document-grounded evidence, approvals, audit trails, idempotent execution, and typed MCP connector contracts for stdio and Streamable HTTP in TypeScript/Next.js.

CORE STACK

Frontend: TypeScript, React, Next.js App Router, Vite, Tailwind CSS, Radix UI, PWA/mobile

Backend & data: Python, FastAPI, Node.js, PostgreSQL, Prisma, Supabase, REST, WebSockets, webhooks, queued jobs, SQL

AI & search: OpenAI, Anthropic, Gemini, vector search, Pinecone, LangChain, MCP, XGBoost, retrieval workflows

Quality & operations: Playwright, Pytest, Vitest, Jest, GitHub Actions, Docker, Vercel, Sentry, visual QA, production debugging

Integrations: Stripe, Twilio, GitHub App/API, Google APIs, enterprise and third-party REST APIs, PHP/Laravel

WORK EXPERIENCE

Founder & Product Engineer | CodeTruss | Jul 2026-Present

- Own product direction, architecture, implementation, automated and visual QA, deployment, production debugging, and customer-facing release evidence.
- Turn release-readiness requirements into scoped workflows, deterministic checks, database-backed jobs, and reviewable evidence receipts.

Full-Stack Product Engineer | Independent Client Delivery | Jan 2026-Present

- Delivered production systems across field service, healthcare documentation, real-estate/AI search, AI education, and gym/PWA operations.
- Translate ambiguous founder and operator requirements into data models, APIs, UI workflows, integrations, deployment plans, QA checks, and production fixes.

Founder & AI Product Developer | VETTR AI | Jan 2025-Feb 2026

- Built and operated an AI product with Python/FastAPI, WebSockets, XGBoost scoring, Telegram delivery, subscription and payment controls, third-party data integrations, and failure-aware recovery.

Independent Automation Developer | Self-Employed / Freelance | Jun 2017-Dec 2024

- Built Python automation scripts, web scrapers, data-processing utilities, and workflow tools for individuals and small businesses while developing skills in APIs, web systems, data workflows, and emerging AI technologies alongside full-time operations roles.

ADDITIONAL CLIENT SYSTEMS

Sports Strategy & Playbook Platform: React/TypeScript/Vite/Supabase architecture for interactive canvas workflows, route and blocking logic, and AI-assisted grading.

Healthcare and Operations PWAs: Next.js/Firebase clinician workflows plus inspection and gym operations with auth, image capture, PDFs, scheduling, monitoring, and payments.

PUBLIC PROOF

Portfolio: zackwhitson.com | Live product: codetruss.com | Release Assurance: codetruss.com/release-assurance | Public code: github.com/DeliriumPulse