

Tyler Stahl

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Professional Summary

Full-Stack Software Engineer and Applied AI Developer specializing in bridging advanced multi-agent workflows with production web infrastructure. With over 6 years of professional experience scaling data-dense web applications for millions of users, I am deeply focused on building products that use the latest technologies to deliver amazing experiences for real people. I bring hands-on, practical experience building structured extraction pipelines, hybrid inference architectures, and multi-agent AI ecosystems, combined with a strong collaborative background.

Core Competencies

- **Applied AI & Infrastructure:** Multi-Agent Orchestration, LLM Inference (Cloud/Local), Structured Data Extraction, Prompt Engineering, Autonomous Workflows.
- **Human Focus:** Leverage background in counseling and anthropology to translate between the user's needs and technical possibilities
- **Full-Stack Engineering:** React, TypeScript, Python, Laravel, JavaScript, HTML5/CSS, TailwindCSS.
- **Backend & Data:** GraphQL, REST APIs, SQLite, PostgreSQL, Data Pipelines (ETL).
- **Engineering Processes:** CI/CD Pipelines, Docker, Automated Testing (Cypress, Playwright, Jest), Git, Agile Delivery.

Professional Experience

Independent R&D | NJ

Applied AI Developer | February 2026 - Present

Building advanced AI infrastructure, recently shipping a sophisticated multi-agent orchestration ecosystem.

- **Multi-Agent Orchestration:** Built and deployed a secure, distributed intelligence pilot utilizing the OpenClaw framework to manage a workforce of specialized autonomous agents (Orchestrator, Data Analyst, UI Developer).
- **LLM Inference & Infrastructure:** Engineered a hybrid inference strategy, routing complex reasoning tasks to Google Gemini 3.1 Pro and local Gemma 27b, while optimizing latency and token usage by routing utility tasks to Gemini 2.5 Flash and Gemma 4b.
- **Structured Extraction & Data Pipelines:** Developed autonomous Python ETL pipelines to scrape, clean, and structure complex market data, utilizing SQLite for state management and Google Workspace CLI for automated reporting.

- **Internal Tooling & Security:** Hardened the agentic environment by building Human-in-the-Loop (HITL) terminal approvals via Antigravity IDE, implementing strict subagent gateway whitelisting, and managing secrets via 1Password.

National Alliance on Mental Illness (NAMI)

Front-End Developer | December 2024 - January 2026

Contributed to core infrastructure and internal tooling to scale front-end development across the organization.

- **Platform Infrastructure:** Built and implemented a centralized Design Component Library, helping enforce architecture standards and streamline UI deployment for the core business application.
- **Engineering Process Improvement:** Developed automated End-to-End (E2E) testing pipelines utilizing Cypress, reducing manual QA cycles and improving deployment confidence.
- **Quality & Compliance:** Executed comprehensive code quality and accessibility audits, collaborating on initiatives that increased the aggregate compliance score by 30%.

Charity Navigator | NJ

Software Engineer | August 2023 - September 2024

Contributed to the delivery of a massive-scale data platform in a high-traffic environment.

- **Full-Stack Production Scale:** Engineered features for a React/TypeScript portal serving over 50,000 clients, optimizing front-end architecture to sustain high-traffic events of upwards of 700,000 concurrent visitors.
- **Backend Integration:** Assisted in the complex transition of legacy data flows into optimized GraphQL API endpoints, streamlining backend-to-frontend communication.
- **Cross-Functional Collaboration:** Worked directly with product and data teams to ship tools that drove operational excellence and streamlined data review processes.

Charity Navigator | NJ

Front-End Web Developer | March 2019 - August 2023

- **High-Impact Delivery:** Played a key role in the technical execution of a massive platform rebuild, collaborating with external design agencies to transition mockups into a production-ready system for over 11 million annual users.
- **Business Outcomes:** Delivered full-stack technology initiatives that contributed to securing a \$5M grant and increased processing efficiency by 43%.

Volant Web Design | NJ

Founder & Web Developer | April 2017 - March 2019 & September 2024 - Present

- Shipped complete full-stack software solutions (PHP, JS, HTML/CSS) for diverse B2B clients, managing the entire lifecycle from requirements to production deployment and SEO optimization.

Education

- **Front-End Nanodegree**, Udacity (Awarded full scholarship from Google's Grow with Google program)
- **Master of Arts (MA), Counseling**, Seattle University
- **Bachelor of Arts (BA), Anthropology**, Dartmouth College