

STEVEN SHOAF

SOFTWARE ENGINEER | AI AGENTS, FULL STACK SYSTEMS, DEVELOPER TOOLS

Austin, Texas | (803) 389-5381 | shoafsystems@gmail.com | linkedin.com/in/stevenshoaf

SUMMARY

Generalist software engineer with 7+ years shipping production web, mobile, backend, cloud, and AI systems. Builds agent infrastructure, developer tools, model-routed media APIs, and customer-facing products with TypeScript and Python. Owns ambiguous work end to end, from architecture through testing, deployment, observability, and handoff.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Java, SQL, HTML, CSS

Applications: React, Next.js, Expo, React Native, Node.js, FastAPI, REST APIs, responsive and accessible UI

Cloud and Data: AWS, Google Cloud Run, Vercel, Convex, PostgreSQL, Drizzle ORM, serverless systems, webhooks, background jobs

AI Engineering: Hermes Agent, OpenClaw, Claude, multi-agent orchestration, tool calling, model routing, skills, memory and context systems, AI-assisted development

AI PRODUCT & PLATFORM ENGINEERING

Founder and AI Infrastructure Engineer | Agents Install | 2024 - Present

- Install and configure Hermes and OpenClaw agents for client operations with role-specific skills, memory and context, tools and business integrations, permission boundaries, workflows, deployment, testing, documentation, handoff, and iterative improvement.
- Built reusable multi-agent client packages with model assignments, approval-gated external actions, observability, and Mission Control reporting; one documented eight-agent package passed 8 of 8 configuration validations.
- Engineered and tuned a nine-profile Hermes deployment with scoped tools, deterministic automation, continuity-aware reporting, security controls, and launchd operations, reducing system-prompt size 68.9%.

Founder and Engineer | AgentCMD (agentcmd.io)

- Built an agent-first work platform for multi-agent orchestration with production task, activity, and heartbeat APIs, persistent semantic context, real-time Convex state, task routing, and human approval boundaries.
- Implemented an event bridge across seven lifecycle hooks for sessions, agent turns, tool-triggered subagent spawns, completions, and failures; the local production bridge log records 74,551 events and 66,951 successful HTTP 200 posts.

Founder and Engineer | Vydra.ai

- Built an agent-first AI media platform with unified APIs for image, video, speech, and character workflows, asynchronous jobs, model and provider routing, API discovery, usage billing, and reusable automated workflows.
- Designed production controls for paid asynchronous inference, including scoped API middleware, concurrent-job and rate limits, stuck-job recovery, cancellation handling, and idempotent transactional refunds with row-level locking.
- Integrated Vydra into OpenClaw as a native media provider so OpenClaw agents can generate image and video media through Vydra's model APIs; also shipped an OpenAPI contract with 10 paths and 11 operations and two installable agent skills.

Founder and Engineer | Doppel

- Built an Expo and React Native iOS app with a FastAPI backend on Cloud Run, background jobs, webhooks, polling backoff, push notifications, and automatic moderation fallback.
- Developed a multi-reference identity pipeline using Nano Banana Pro editing and GPT Image character sheets, plus a Vydra video layer using Seedance 2.5 and Gemini Omni.
- Created a remotely managed draft and publish template catalog with a Template Studio admin console; shipped 12 packs and 46 live templates and built 139 backend tests.

AI PRODUCT & PLATFORM ENGINEERING (CONTINUED)

Product Engineer | Spark & Outposted

- Surface and ingest winning social content and trends in Spark; turn proven ideas into scripts and repurposed, publish-ready content and workflows in Outposted.

PROFESSIONAL EXPERIENCE

Senior Full Stack Software Engineer | NBA | Dec 2024 - Present

- Lead production full-stack engineering for NBA digital initiatives, building React, Next.js, Node.js, and backend integrations with emphasis on performance, accessibility, reliability, and cross-device experiences.
- Led an initiative to introduce AI-assisted development at the NBA and onboard the team to Claude, establishing practical workflows and support for adoption.
- Build and maintain fan-facing features involving live data integration, game updates, interactive tools, backend services, and responsive user experiences.
- Partner with product, design, and engineering stakeholders to translate ambiguous requirements into technical plans and production releases.

Full Stack Engineer | Independent Contractor | Apr 2024 - Dec 2024

- Delivered AI-powered and full-stack applications for client environments using TypeScript, React, Next.js, Node.js, Python tooling, APIs, and cloud-hosted services.
- Led discovery, converted business goals into implementation plans, and owned delivery across changing requirements, integrations, performance, accessibility, and responsive UX.

Software Development Engineer II | Amazon | May 2020 - Apr 2024

- Owned and shipped Java and React features across Whole Foods Market digital integrations and Amazon DashCart production systems.
- Improved Whole Foods Market sale-item search and filter efficiency by 97% through performance-focused redesign and API optimization.
- Researched and implemented system improvements for performance, maintainability, API quality, and integration reliability; developed API verification and integration testing features.
- Led sprint planning and code reviews and coordinated cross-functional delivery for production services and customer-facing workflows.

Full Stack Engineer, Part-Time Contractor | 7Factor | Dec 2022 - Dec 2023

- Delivered client-facing full-stack projects by translating user stories and business requirements into maintainable production features.
- Worked directly with clients and developers through delivery checkpoints, agile adjustments, integrations, and quality-focused implementation across concurrent projects.

EDUCATION AND CERTIFICATION

Bachelor of Science in Computer Science | Clemson University

AWS Certified Cloud Practitioner