Jared Hooker

AI Engineer | Full Stack Software Engineer
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SUMMARY

AI engineer and studio co-founder shipping LLM applications and agent infrastructure, including a production browser agent that verifies every action against the system of record. MCP, Claude Agent SDK, TypeScript, Python, PostgreSQL.

SKILLS

AI Engineering: Claude API, Claude Agent SDK, MCP, Tool Calling, Structured Outputs, Agent Orchestration, Codex
Languages: TypeScript, JavaScript, Python, Java, SQL
Frontend: React, React Native, Next.js, Tailwind CSS, Electron
Backend & Data: Node.js, FastAPI, Spring Boot, GraphQL, REST APIs, PostgreSQL, Redis, Firebase
Infrastructure & Delivery: Docker, Cloudflare Tunnel, Linux, AWS (S3, IAM, CloudFront), GitHub Actions, CI/CD, Vercel

PROFESSIONAL EXPERIENCE

Co-founder & Software Engineer | Codefront Labs | 10/2026 - Present

- Build AI applications end to end: React/Next.js interfaces, Python/FastAPI services, PostgreSQL, and deployment.
- Develop multi-tenant apps where AI drafts source-backed proposals under role-based approvals and audit trails.
- Ship invoice review, support triage, and investigation systems with background jobs and deterministic checks.
- Connect structured AI extraction to deterministic decimal validation, duplicate checks, and retained provenance.
- Run exception investigations with hashed evidence snapshots, exact-step approvals, and read-back verification.

Founder & Freelance Full Stack Engineer | Hooker Hill Studios | 10/2020 - 10/2026

- Designed, built, and operated SaaS products and developer tools from requirements through maintenance.
- Sole author of a production payer-enrollment browser agent (Claude Agent SDK, MCP, Playwright).
- Derived every verdict from the payer's own records, never the page or model, in a hash-chained audit.
- Prevented duplicate filings across crashes and concurrent runs with write-ahead holds and locked job queues.
- Kept credentials out of the model; enforced tiered autonomy and human approvals in code at one choke point.
- Extended it into multi-tenant B2B SaaS with PostgreSQL row-level security, API-key auth, and vaulted tokens.
- Self-host products on a home Linux server with Docker, served publicly through Cloudflare Tunnel.
- Built a custom CI/CD system: a push to self-hosted Gitea rebuilds and redeploys with zero downtime.
- Built and shipped Android apps with React Native; mentored junior developers and high school students.

SELECTED PRODUCTS

ForgeLoop - Coding Agent Orchestration Platform

Java, Spring Boot, React, GraphQL, PostgreSQL, MCP | github.com/JRH89/ForgeLoop

- Orchestrated coding agents across isolated Git worktrees with runner leases and durable workflow state.
- Gated GitHub delivery on build/test checks, criterion-level evidence, independent review, and bounded repair.
- Exposed scoped context, evidence, and audit tools to agents through MCP handlers; enforced usage budgets.

Truss - Coding Agent Platform

TypeScript, Node.js, Electron, MCP | truss-agent.com

- Built a provider-neutral agent runtime shared by desktop, VS Code, CLI/TUI, and Neovim clients.
- Supports local and cloud LLMs, MCP tool execution, workspace memory, and sessions that persist across clients.
- Implemented agent profiles, host-side permissions, checkpoint recovery, and a write lease serializing edits.

Hive - Terminal Multiplexer for AI Coding Agents

Rust, Tokio, ratatui, Unix sockets, GitHub Actions | hive.codefrontlabs.com

- Built a Rust daemon and TUI running Claude Code, Codex, Gemini CLI, and OpenCode side by side in real PTYs.
- Kept agents alive across detach and UI crashes via a daemon/client split, with optional per-agent worktrees.

CERTIFICATES

Building with the Claude API - Anthropic Education, 2026
Model Context Protocol: Advanced Topics - Anthropic Education, 2026
CS50x - Introduction to Computer Science, certificate of completion, 2024