

Jared Hooker

Full Stack Software Engineer

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SUMMARY

Full Stack Software Engineer with experience designing, building, and operating production software across SaaS platforms, developer tools, automation systems, and AI-enabled applications. Experienced across TypeScript, Python, Java, React, Node.js, PostgreSQL, and cloud infrastructure, with end-to-end ownership from system architecture and implementation through deployment, performance optimization, and production operations.

SKILLS

Languages: TypeScript, JavaScript, Python, Java, Ruby

Frontend: React, Next.js, Tailwind CSS, Electron

Backend & Data: Node.js, Ruby on Rails, Spring Boot, PostgreSQL, Redis, REST APIs, GraphQL, Data Modeling

AI & Developer Tools: LLM APIs, MCP, Tool Calling, Agent Systems, Browser Automation

Infrastructure & DevOps: Docker, CI/CD, AWS, GCP, Cloudflare, Vercel, Linux, Git

PROFESSIONAL EXPERIENCE

Founding Full Stack Software Engineer | Codefront Labs | 10/2026 - Present

- Designed and built an autonomous software engineering platform that converts feature requirements and repository issues into dependency-aware tasks, coordinates specialized coding agents across isolated Git environments, verifies changes through builds and tests, and submits completed work for review.
- Developed evidence-driven automation systems for high-trust workflows, including browser-based task execution, identity and state verification, audit trails, reproducible evidence capture, and safeguards around permissions, consistency, and single-writer operations.
- Built an AI-powered research and writing platform that plans multi-step research tasks, discovers and executes external tools, evaluates source quality, tracks evidence at the claim level, and produces citation-backed written outputs with revision history.
- Implemented agentic workflows using LLM APIs, tool calling, MCP integrations, structured outputs, browser automation, Git operations, background processing, and automated validation loops.
- Built full-stack production systems using TypeScript, React, Next.js, Node.js, Python, PostgreSQL, Firebase, Docker, Cloudflare, and CI/CD pipelines, with responsibility for architecture, deployment, monitoring, and production reliability.

Founding Full Stack Software Engineer | Hooker Hill Studios | 10/2020 - 10/2026

- Architected and shipped 15+ production applications spanning SaaS platforms, developer tools, automation systems, AI-enabled products, and consumer-facing software using TypeScript, Python, Java, Ruby, React, and Node.js.
- Owned products end to end from requirements and system design through frontend development, backend services, database architecture, deployment, monitoring, production debugging, and ongoing feature development.
- Built backend systems and APIs supporting relational data models, background processing, third-party integrations, browser automation, authentication, asynchronous workloads, and complex application workflows.
- Designed and operated production infrastructure using PostgreSQL, Docker, CI/CD pipelines, cloud platforms, and self-hosted services, automating deployments and improving reliability and release velocity.

SELECTED PRODUCTS

ForgeLoop - Autonomous Software Engineering Platform (Java, Spring Boot, React, GraphQL) github.com/jrh89/forgeloop

- Built a distributed software engineering harness that decomposes feature specifications into dependency-aware tasks and orchestrates specialized coding agents in parallel across isolated Git worktrees and self-hosted runners.
- Engineered closed-loop verification and autonomous repair workflows using builds, tests, container execution, browser automation, MCP tools, and evidence-backed acceptance criteria to validate agent-generated changes before human review.
- Designed the orchestration layer to manage task dependencies, agent execution state, isolated workspaces, and verification evidence across concurrent engineering workflows.

Truss - Agentic Coding Harness (TypeScript, Electron, MCP, LLMs) truss-agent.com

- Built and shipped a local-first, provider-agnostic coding agent with MCP, tool calling, structured outputs, Git workflows, browser preview, and agent task execution.
- Developed a shared runtime powering desktop, VS Code, CLI/TUI, and Neovim clients while supporting local and cloud LLM providers.
- Designed provider-neutral runtime abstractions for model execution, tool registration, approval policies, session state, workspace memory, and checkpoint recovery.