



AI in SaaS: Building Your Own AI-Powered SaaS Application

How To Create AI Powered SaaS Organically BATCH10 35

Nathan Steele



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Building an AI SaaS App Builder Nathan Steele, 2025-07-08 Building an AI SaaS App Builder A Full Stack Guide with Next.js 15 Inngest E2B and AI Agents is the ultimate hands-on playbook for developers, founders, and tech builders ready to create and scale real-world AI applications without guesswork. Whether you're prototyping a GPT-powered chat assistant, deploying long-running background agents, or integrating billing and authentication, this book equips you to build a production-ready AI SaaS platform from the ground up. If you've ever wondered how to combine tools like Next.js 15, LangChain, vLLM, Clerk, Stripe, and Vercel into one seamless, high-performance stack, this guide shows you exactly how. Through battle-tested examples and working code, you'll wire agent backends, stream chat responses in real-time, deploy with CI/CD, and plug into GitHub with AI code reviews. Every chapter delivers immediately usable techniques that reflect the latest industry trends and best practices. Author Nathan Steele is a respected AI systems architect and full-stack engineer known for breaking down complex architectures into concise, actionable steps. With a proven background in real-world SaaS development, Steele empowers readers to go beyond theory into actual deployment and monetization. Whether you're an indie hacker, software engineer, or startup founder, this book puts you on the fast track to building your own AI-powered SaaS products powered by LLMs, LangGraph, and cloud-native deployment pipelines. Everything is up-to-date, deeply practical, and ready for immediate implementation.

What Makes This Book Stand Out: Real-world AI agent architecture using PyTorch, Inngest, and LangChain. Production-grade deployment with Vercel, CI/CD, and scalable edge APIs. Integrated authentication, billing, and credits using Clerk and Stripe. Hands-on labs to build anonymous demo modes, template marketplaces, and more. Built-in support for streaming UIs, code generation, and long-running tasks. Perfect for developers building AI apps, full-stack platforms, or SaaS MVPs. Updated for Next.js 15, server actions, React server components, and beyond.

Technologies Covered: Next.js 15, LangChain, AI agents, Vercel, LangGraph, Clerk authentication, Stripe billing, PyTorch, LLMs, vLLM, GitHub Actions, E2B sandboxing, streaming output, Inngest, TypeScript, SaaS, ChatGPT integration, full-stack development, SaaS with AI, cloud-native apps, serverless architecture, OpenAI apps, template marketplace, AI startup architecture.

Table of Contents Highlights: Chapter 1: Project Overview and Tech Stack. Chapter 2: Setting Up the Monorepo with Turborepo. Chapter 3: Architecting Your SaaS Backend. Chapter 4: Building AI Agents with LangGraph and Inngest. Chapter 5: Connecting the Retriever-Generator Pipeline. Chapter 6: Secure Sandbox Execution with E2B. Chapter 7: Fine-Tuning LLMs with PEFT and LoRA. Chapter 8: Building the Chatbot Interface and API Layer. Chapter 9: Developing the Frontend UI with Shadcn UI. Chapter 10: Authentication and Billing with Clerk and Stripe. Chapter 11: Customizing the Developer Experience. Chapter 12: GitHub-Based AI Workflows with CodeRabbit. Chapter 13: Deploying and Scaling with Vercel and CI/CD. Chapter 14: Extending and Monetizing the Platform. Appendices: Codebase Structure, Debugging, Glossary, Resources.

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