

Patrick Bennett

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PROFILE

13 years shipping production software, two of them in aviation at Airbus / Skywise. I build the systems that let AI agents do real engineering work: agentic CI/CD, MCP servers, RAG retrieval and LLM tooling across Vue / TypeScript front ends and cloud-native backends. I also know when a problem is better off without a model.

SKILLS

AI & AGENTIC

Claude • OpenAI • Gemini
MCP servers • Agent orchestration
RAG • Embeddings • pgvector
Prompt engineering • Prompt caching
LLM code review in CI • Claude Code

LANGUAGES

TypeScript • JavaScript • Python
Rust • Go • PHP • Swift • SQL

FRONTEND

Vue.js • Nuxt • React • Next.js
SPA • Micro-frontends
HTML • SASS • CSS • Tailwind

BACKEND & DATA

Node.js • Go • FastAPI • NestJS
Federated GraphQL • REST • Kafka
Postgres • DynamoDB • BigQuery

DEVOPS & TESTING

GitHub Actions • Docker • Linux
AWS (Lambda, Kinesis, SQS) • GCP
CloudFormation • Terraform
Playwright • Vitest • Jest • Pytest • k6

LINKS

GitHub:// [patricksgreat](#)
LinkedIn:// [patrick-bennett-7769016](#)
StackOverflow:// [funkenstein](#)
Portfolio:// [patricksgreat.com](#)

EDUCATION

WALLACE STATE COLLEGE

Computer Science
2000 - 2002 | Hartselle, AL

CONTINUOUS

Coursera • MIT OCW • MDN • Udemy

EXPERIENCE

THREADITATE | Founder & Principal Engineer

November 2025 to present | Atlanta, GA

- Threaditate turns a customer photo into a string art pattern for a physical 240-pin loom kit. Built the platform: Next.js 15 / React 19 / TypeScript (strict) driving a Rust-to-WebAssembly solver in a Web Worker, on Supabase, Vercel and a Shopify storefront.
- Built **Neural Threadwork**, a closed-loop retrieval system for render quality: a vision-model judge scores every render, a 16-dimension structured feature embedding indexes it in pgvector, and nearest-neighbour retrieval feeds winning recipes back to the advisor as few-shot exemplars. Structured features beat CLIP here: tone, not semantics, predicts the recipe.
- Architected an AI-augmented GitHub Actions pipeline (lint, type, unit and Playwright E2E gates plus nightly E2E) with an LLM reviewer on every PR, trigger-scoped and model-pinned to hold review spend down without losing coverage.
- Published **agentic-toolkit**: an Actions layer turning any repo into an issue → agent → PR → review → merge → retro loop, behind one provider seam that runs the same workflows on Claude Code, OpenAI Codex or Google Gemini, with complexity routing and a human approval gate.
- Also built **sharma-bot**, a Go agent loop straight on the Anthropic SDK (no framework) with tool use, prompt caching and per-call cost telemetry; an approve-first bookkeeping agent with an append-only audit log and per-action undo; and a Nuxt 4 / Vue 3 SPA on Supabase.

SOUNDCLOUD | Sr. Software Engineer

October 2023 – November 2025 | Remote

- Creator Success / Artist Analytics: shipped a new user settings service in Go and DynamoDB, architected a regional minor-protections system, and migrated legacy Scala and JVM services onto AWS (DynamoDB, S3).
- Provisioned AWS and GCP infrastructure with Terraform, wired automated end-to-end tests into GitHub Actions, extended a federated GraphQL subgraph ecosystem in TypeScript and Go, and built Kafka event pipelines plus BigQuery ETL.

AIRBUS / SKYWISE | Sr. Software Engineer

September 2021 – October 2023

- Senior engineer: architected the Network Operations Optimization (NOO) data pipelines for real-time airline logistics on Python, FastAPI, Serverless, AWS Lambda, DynamoDB, Kinesis and SQS, and helped drive PI planning for 10-week SAFe iterations.
- Helped instate e2e, integration and unit testing across Skywise Predictive Maintenance, including a GraphQL mocking system that made pipeline runs deterministic.
- Proposed and helped build the Atlanta Experience Center: a customized A320 in Microsoft Flight Simulator with a 3D cockpit, wired into Skywise for executive demos.

Earlier (detailed overleaf): **CNN / WarnerMedia**, Sr. Software Engineer (2020–2021), LiveStory React / GraphQL performance and a failover REST API for election traffic. **Digital Additive** (2015–2020), Vacoda, a Laravel + Vue.js platform at Home Depot and Carters.com. **BlacQube** (2013–2015), Mercedes front ends.

EARLIER EXPERIENCE

CNN / WARNERMEDIA | Sr. Software Engineer

March 2020 – September 2021 | Atlanta, GA

- Improved the performance and scalability of LiveStory, a high-traffic React / GraphQL application powering live news feeds for millions of readers a day.
- Profiled and refactored the cnn-data-api GraphQL service with k6 and Apollo Studio, removing bottlenecks in resolvers and schema stitching.
- Built a failover REST API for LiveStory to absorb the traffic surge during the 2020 Presidential election.
- Built the first iteration of CNN+, CNN's video streaming platform, inside CNN's proprietary publishing platform.
- Built DOM reconciliation features within CNN's Clay CMS to achieve reactive client-side UI updates.
- Built a Redux-style ClientModel layer in Clay for component-level state management across components.

DIGITAL ADDITIVE | Sr. Software Engineer

April 2015 – March 2020 | Atlanta, GA

- Developed and deployed Vacoda, a content management and creation system for corporate teams built in Laravel and Vue.js, in production use by Home Depot CRM teams and Carters.com.
- Configured Vacoda to ship to AWS EC2 instances via custom Docker containers driven by BitBucket Pipelines.
- Built a product rating system for Home Depot.
- Built middleware and integrations for WeWork, IBM / Interact and SouthernLinc, extending the functionality of Salesforce Marketing Cloud.

BLACQUBE | Web Developer

May 2013 – April 2015 | Atlanta, GA

- Built award-winning mobile and web front ends for Mercedes and Mercedes-AMG.
- Worked closely with designers to translate static designs into animated, interactive experiences in JavaScript and jQuery.
- Upgraded CakePHP on the Mercedes-AMG Private Lounge web app.
- Administered the web servers hosting various builds.