

Sean Carroll

Forward Deployed Engineer | Applied AI

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Hands-on AI engineer who embeds with customers, learns their domain fast, and ships production agentic systems inside their environment. Nine years building software; the last six deploying data and AI platforms directly with customers — 3 enterprise marketplace API integrations, GIS/ML underwriting tools built alongside national developers' acquisition teams, and agent workflows, RAG, and evals for 8 startups under HIPAA, SOC 2, and GDPR constraints.

EXPERIENCE

Co-founder / CTO — BikeWise (SheldonAI) — Exited

Aug 2023 – Mar 2026

Paris, France

- Led customer engineering for 3 enterprise marketplace design partners: scoped each integration with their teams, mapped their catalog data into our schema, and shipped white-glove API integrations into their existing product surfaces.
- Built SheldonAI, an agentic RAG platform over 2.5M+ cycling product listings — CLIP + text hybrid retrieval, reranking, and LangGraph query-time reasoning, with eval loops tuned against real merchandiser feedback; took it from zero to EIT Urban Mobility Accelerator recognition.

Fractional CTO / Hands-on AI Engineer — Independent

Aug 2023 – Present

Remote, embedded with client teams

- Embedded with 8 AI-forward startups (avg. 14-week engagements, \$0–\$25M ARR) across home health care, real estate, e-commerce, and social; clients include Qensa, ReferraLynx, TrustAgent, and OrBestOffer.
- Shipped LangGraph agent workflows, RAG over messy domain corpora, and eval-driven LLM APIs into each client's existing stack, with observability from day one; cut one client's monthly LLM spend by ~65% through model routing, GraphRAG context caching, and prompt trimming.
- Delivered under HIPAA, SOC 2, and GDPR requirements; ran discovery with execs and domain experts, wrote the specs, and hired 1–9 engineers per client to own the system after handoff.

CTO — Madelon (REDtech)

Sep 2020 – Sep 2023

New York, NY

- Worked directly with national real estate developers' acquisition teams to learn how they underwrite, then built REDtech around that workflow: a GIS/ML platform fusing parcel geometry, zoning rules, and underwriting logic that evaluated 12M+ parcels across 3 markets and supported 9 deals, with site comparisons in hours instead of weeks.
- Turned messy municipal PDFs, GIS layers, and Excel into reliable PostGIS pipelines; scaled engineering from zero to four with nearshore partners and a predictable release cadence.

Full Stack & Lead DevOps Engineer — ADK Group / 3BL Media

2017 – 2020

Boston & Northampton, MA

- Client-facing full-stack engineering (Drupal, React, Ember); promoted to lead DevOps, standardizing CI/CD, runbooks, and incident response.

PROJECTS

SwarmHire — multi-agent career platform

2026 · [joinswarmhire.com](#)

- Six parallel LangGraph specialists score a resume against a target role and rank what to fix first; ~400 resumes scored against ~2,500 job postings. Next.js 16, FastAPI/Supabase, Stripe billing.

Open Source

[github.com/seacar](#)

- TAP is the MCP of traceability — a vendor-neutral protocol for signed, verifiable records of AI agent activity. SUTH — drives a real browser with LLM-backed personas and reports UX friction, not pass/fail.

SKILLS

AI / LLM Systems

LangGraph · RAG & hybrid retrieval · Evals & LLM observability (LangSmith) · Multi-agent orchestration · Anthropic Claude · OpenAI · Google Gemini · CLIP · pgvector

Engineering

Python · FastAPI · TypeScript · Node.js · React · Next.js · SQL · PostgreSQL · Supabase · PostGIS · Redis · Docker · AWS · GCP · GitHub Actions CI/CD

Customer-Facing

Technical discovery · Solution scoping & written specs · API integrations into customer stacks · Demos to executives & domain experts · HIPAA, SOC 2, GDPR delivery

EDUCATION

BS, Materials Science & Engineering — Georgia Institute of Technology	2016
Business Data Analytics Certificate — Wharton School, University of Pennsylvania	2018
AI Program (Master's Certificate) — Stanford University	2026 – Present