

Sean Carroll

Technology Strategist & AI Engineer

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Production-focused AI engineer and technology strategist with a proven pattern of embedding deeply with a domain, mastering it fast, and shipping agentic systems that move real business metrics — across cycling, real estate, home health care, e-commerce, and consumer marketplaces. Georgia Tech materials-science training underpins a systems-thinking approach to architecture, evaluation, and production reliability that most software engineers don't bring to AI work.

MOST PROUD OF

- Coaching the Design Studio at the University of Nebraska–Lincoln's Raikes School — mentoring student teams through real client engagements, the same craft I practice daily: turning ambiguous problems into products that hold up to scrutiny.
- Building SheldonAI (BikeWise) solo from zero to EIT Urban Mobility Accelerator recognition and paying enterprise customers — then carrying that same discipline into SwarmHire and Afoot's production multi-agent systems.

EXPERIENCE

Founder — Afoot

Cambridge, MA

July 2026 – Present

- Building a geography-first local-discovery app: H3-hex demand-gated Gemini grounded search fills verified event inventory, a preference vector learns from user feedback, and the app composes curated daily tracks.
- Architecting SemDAG — a verified operator graph compiled from clustered model traces — so repeated extraction patterns run on cheap deterministic code instead of the large model.
- Full stack: FastAPI + Postgres (H3 as B-tree text), Expo mobile app, Next.js share pages, GitHub Actions, pytest.

Founder — SwarmHire

Cambridge, MA

March 2026 – Present

- Built a multi-agent career platform: six parallel LangGraph specialists score a resume against a target role, with inline accept/dismiss suggestions and a Navigator that ranks what to fix first.
- Shipped Cover Letter Studio, a job-matching CRM, and application-readiness briefs on Next.js 16 + Stripe billing atop FastAPI/Supabase agent services.

Fractional CTO — Freelance

Remote

Aug 2023 – Present

- Embedded technical partner for AI-forward startups from idea stage through Series B pressure — discovery, architecture, build-or-buy, model/vendor selection, hiring and CI/CD practice.
- Portfolio spans \$0–\$25M ARR across home health care, real estate, e-commerce, and social (clients include Qensa, ReferraLynx, TrustAgent, OrBestOffer): LangGraph agent workflows, RAG over messy domain corpora, and eval-driven LLM APIs shipped with observability from day one.

Co-founder — BikeWise (SheldonAI)

Paris, France

Aug 2023 – Mar 2026

- Built an enterprise-grade agentic RAG platform for the cycling industry from zero, over 2.5M+ product listings: CLIP + text embeddings for hybrid retrieval, LangGraph orchestration for query-time reasoning.
- Owned the lifecycle solo through EIT Urban Mobility Accelerator recognition, then landed and supported enterprise customers via white-glove API integration.

CTO — Madelon (REDtech)

New York, NY

Sep 2020 – Sep 2023

- Embedded as CTO with a national real estate developer to build a GIS/ML platform fusing parcel geometry, zoning rules, and underwriting logic — PostGIS, Mapbox, custom lot-yield scoring heuristics.
- Scaled the engineering team from zero to four on a \$250K budget with nearshore partners; owned product direction and data engineering from messy municipal PDFs/GIS/Excel sources.

Full Stack Developer — ADK Group / 3BL Media

Boston & Northampton, MA

2017 – 2020

- Agency and enterprise Drupal/React/Ember work: custom modules, editorial workflows, Core Web Vitals performance; later led DevOps for a multi-property estate, standardizing CI/CD on GitHub Actions and making deploys boring.

TECHNICAL SKILLS

AI / RAG	LangGraph · Multi-agent orchestration · RAG pipelines · SemDAG · Graph databases · Eval-driven workflows · OpenAI · Google Gemini · Anthropic Claude · CLIP · LangChain · Vector DBs · Prompt & function-calling engineering
Frontend	React · Next.js · TypeScript · Tailwind CSS · Zustand · Framer Motion · Vitest · React Testing Library · Cypress
Backend	Python · FastAPI · Node.js · Supabase · PostgreSQL · SurrealDB · Redis · GraphQL · Prisma · tRPC · Zod · WebSockets / SSE
DevOps	Docker · Railway · AWS · GCP · Vercel · GitHub Actions · CI/CD · Terraform · Kubernetes · Cloudflare
Mobile / Data	React Native · Expo · CapacitorJS · PostGIS · Mapbox · pandas · NumPy · SQL optimization

EDUCATION

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

BEYOND THE CODE

Cycling · Sailing · Snowboarding · Scuba Diving · Rock Climbing · Kayaking · Mountain Biking · Surfing · Photography · Travel —
Volunteer: Design Studio Coach, UNL Raikes School · Lincoln Bike Kitchen