










Adam Matthew Steinberger

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SUMMARY

Senior Software Engineering Consultant and AI Developer with 12+ years of experience architecting and building **secure, scalable systems** across AI, finance, and privacy-focused technologies. I specialize in developing custom **Retrieval-Augmented Generation (RAG)** systems using **self-hosted** or **cloud-based** LLMs, containerized **microservices**, and event-driven architectures. My expertise spans **full-stack** AI infrastructure, from **prompt engineering** and **inference APIs** to observability, orchestration, and **autonomous agent workflows**. I help clients deploy decentralized, mission-aligned infrastructure rooted in **privacy, resilience**, and open-source principles. With a strong foundation in **backend engineering, DevOps**, and **cloud-native** technologies (Python, JavaScript, .NET, Docker, Ubuntu, AWS/Azure), I deliver **modular, production-ready** AI platforms tailored for **modern agentic** and **knowledge-integrated** use cases.

SUMMARY OF SKILLS

| | |
|------------------------------|---|
| AI & ML Tools: | Mistral, RAG, LoRA, n8n, vLLM, OpenWebUI, Prompt Engineering, Custom Instructions |
| Languages & Frameworks: | JavaScript, Python, C#, NestJS, Flask, WebAPI |
| Databases: | PostgreSQL, SQL Server, Snowflake |
| Cloud & Infrastructure: | Azure, AWS, Ubuntu Server, DigitalOcean, Docker, DNS, CI/CD pipelines |
| Privacy & Deplatforming: | Proton, Ubuntu, GrapheneOS, LineageOS, System76, F-Droid/Aurora, Warp, Cursor |
| Methodologies & Soft Skills: | Agile/Scrum, Consulting, Leadership, Entrepreneurship, Privacy-First Tech |

PROFESSIONAL EXPERIENCE

Adam Matthew Steinberger LLC

Senior Software Engineering Consultant

Wake Forest, NC

03/2025-Present

Local AI Infrastructure & Self-Hosted RAG Chatbot (Mistral-7B)

- Built a **Retrieval-Augmented Generation (RAG)** system using **self-hosted Mistral-7B** and **FAISS** for vector search, enabling **privacy-first, context-aware chatbots**.
- Created an **OpenAI-compatible API** using **vLLM** connected to the custom RAG pipeline, allowing seamless integration with additional AI tools and client applications.
- Set up observability with **Grafana** and **Prometheus** to monitor token throughput, latency, and resource usage across distributed AI services.
- Designed a containerized **microservices architecture** using **Docker** and **CI/CD** pipelines, deployed across **Netlify** and a **bare-metal server** for scalable, modular infrastructure.
- Implemented **real-time chat** via **OpenWebUI** and orchestrated **backend automation** using **n8n** to support agent workflows and scheduled tasks.

Custom Cloud-Based RAG Chatbot

- Built a separate **Retrieval-Augmented Generation (RAG)** system using a **cloud-hosted GPT** and JSON-based **document storage**, an **instruction-alignment** layer, and an integrated API-driven **web search** module.
- Developed a **professional, responsive web interface** with clean UX and modern styling to ensure a visually engaging user experience.
- Optimized content, metadata, and chatbot behavior specifically for **sales** and **engagement** use cases, including **custom instructions** and **SEO targeting** for chatbot services.

Lima One Capital**Greenville, SC****Senior Software Engineer****05/2023-02/2025**

- Led Python & JavaScript integrations using APIs, Webhooks, and Job Schedulers.
- Redesigned an enterprise software suite with NestJS microservices (gRPC, REST) & PostgreSQL.
- Migrated legacy Mulesoft APIs to NestJS, improving system efficiency.
- Led .NET & ReactJS development for a mortgage broker platform.
- Built HubSpot Sync, automating SharePoint & HubSpot data flow for marketing.
- Developed Elphi ETL, capturing & tracking Elphi data in Snowflake via webhook.
- Integrated HouseCanary property data into Snowflake for real-time accessibility.
- Automated Paylocity Sync, logging HR changes into Halo ITSM.
- Created Snow Portal, a job scheduling system for Snowflake (Alteryx alternative).
- Designed and implemented PE Microservices, including Nest-based authentication & logging solutions.
- Prototyped the PE Next Web App, a modern Next.js UI for the Pricing Engine.
- Refactored Salesforce Integration using NestJS for improved reliability.
- Developed the PE Credco API, generating credit reports within the Pricing Engine.
- Implemented the PE Nightly Cron & Scheduler, automating database operations.
- Explored DBT for Snowflake transformations & version control in a proof of concept.

Transcat, Inc.**Rochester, NY****Senior Software Engineer****04/2022-01/2023**

- Led a small team to deliver .NET Web APIs and a React app for lab equipment calibration.
- Integrated internal systems and improved legacy codebases, including a VB.NET system.
- Enhanced a Magento-based site in collaboration with external vendors.

LeaseTrack, Inc.**Latham, NY****Senior Software Engineer****06/2021-04/2022**

- Built Python + Textract ML tools to automate insurance document parsing.
- Developed a Java Spring Boot annotation system to streamline ML training.
- Delivered full lifecycle development, estimation, and deployment.

Akmazio LLC**Albany, NY****Senior Software Engineer****05/2020-05/2021**

- Led Agile sprints and dev team for a mobile networking platform.
- Built backend in C#/.NET with MS SQL; deployed to DigitalOcean with custom scripting.
- Supported pre-launch testing with 12+ industry users.

Bestpass, Inc.**Albany, NY****Software Engineer****09/2019-04/2020**

- Delivered a toll billing system and modernized legacy code using C# MVC and Knockout.js.
- Introduced automated unit tests to improve maintainability and coverage.

New York State Insurance Fund**Albany, NY****Software Engineer****03/2015-08/2019**

- Migrated legacy systems (VB6 to C# MVC), automated code workflows, and mentored junior devs.
- Refactored Oracle EDI systems and standardized engineering processes across teams.

Town & Country Computer Services**Schenectady, NY****Junior Software Engineer****07/2013-03/2015**

- Built web tools and services in C# ASP.NET for insurance quoting, rating, and reporting.

EDUCATION & CERTIFICATES*Bachelor of Arts in Computer Science, Skidmore College, Saratoga Springs, NY (Graduated: 2012)**Certified ScrumMaster, ScrumAlliance (Awarded: 2021)*