










# 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

Wake Forest, NC

#### Senior Software Engineering Consultant

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.

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**EDUCATION & CERTIFICATES**

*Bachelor of Arts in Computer Science, Skidmore College, Saratoga Springs, NY (Graduated: 2012)*

*Certified ScrumMaster, ScrumAlliance (Awarded: 2021)*