**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** forvector 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)