Adam Matthew Steinberger

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SUMMARY

Staff Software Engineer and *AI Solutions Architect* 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**, ChatGPT, Claude, Gemini, Llama, Prompt/Context Engineering, AI Agents
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

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PROFESSIONAL EXPERIENCE

Adam Matthew Steinberger LLC   Greenville, SC
Staff Software Engineer   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)