**Adam Matthew Steinberger**

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**SUMMARY**

**Staff Software Engineer** and **AI Solutions Architect** with **12+ years of experience** designing **secure**, **scalable systems** across AI, enterprise automation, and financial technology. I specialize in **end-to-end solution delivery:** from **process engineering** and **requirements analysis** to **architectural design**, **implementation**, and **team enablement**. My expertise includes building custom **Retrieval-Augmented Generation** (RAG) systems using **self-hosted** or **cloud-based LLMs**, designing **event-driven microservices** architectures, and creating **production-ready platforms** that integrate AI with enterprise systems like **Azure Service Bus**, **Microsoft Graph**, and **third-party APIs**. I excel at transforming complex business problems into **documented**, **executable solutions** that empower **junior and mid-level teams** to deliver independently. With deep technical foundations in **Python**, **JavaScript**, **.NET**, **Docker**, and **cloud infrastructure** (Azure/AWS), I deliver **modular**, **turnkey systems** optimized for **automation**, **scalability**, and **long-term maintainability**.

**SUMMARY OF SKILLS**

*AI & ML Tools:* **RAG Architecture**, **Vector Databases**, **LLM Orchestration**, ChatGPT, Claude, Prompt/Context Engineering, AI Agents

*Languages & Frameworks:* **Python**, **JavaScript**, **C#**, NestJS, Flask, .NET WebAPI, React, Next.js

*Databases & Data:* **PostgreSQL**, **Snowflake**, SQL Server, FAISS, Vector Stores

*Cloud & Infrastructure:* **Azure (Service Bus, Functions, Storage), AWS, Docker, Ubuntu Server, CI/CD Pipelines, Microservices Architecture**

*Integration & Automation:* Microsoft Graph API, REST/gRPC APIs, Webhooks, Job Schedulers, ETL Pipelines

*Methodologies & Soft Skills:* **Process Engineering**, **Solutions Architecture**, **Technical Documentation**, Agile/Scrum, Consulting, Team Enablement

Privacy & Tooling: Proton, Ubuntu, GrapheneOS, System76, Warp, Claude Code

**PROFESSIONAL EXPERIENCE**

**Adam Matthew Steinberger LLC** **Greenville, SC**

**Staff Software Engineer 03/2025-Present**

AI Payroll Processor (GPT-5) – Enterprise Client

* Led complete **project discovery and redesign** for an automated payroll processing system, transforming initial requirements into a **production-ready architecture** within **45 days**.
* Applied **process engineering** methodologies to diagnose client pain points, analyze existing workflows, and deliver a **fully documented solution** including executive summary, architectural design, and technical specifications.
* Designed an **Azure-based microservices architecture** using **Service Bus**, **RAG**, and **Onion Architecture** patterns to automate end-to-end payroll processing from document ingestion to ADP API integration.
* Built a **Retrieval-Augmented Generation** (RAG) pipeline that scans **Outlook** and **SharePoint** data, stores it in a **vector database**, and uses **LLM-driven commands** to generate payroll data via **Excel automation** and **Microsoft Graph API**.
* Implemented **multiple human-in-the-loop** (HITL) checkpoints and **LLM-powered anomaly detection** to ensure data accuracy and compliance throughout the payroll workflow.
* Provisioned **Azure cloud resources**, created **boilerplate repositories**, and documented all **permissions**, **keys**, and **resource requirements** for seamless team onboarding.
* Decomposed the entire project into a **comprehensive JIRA Scrum board** (Epics, Features, User Stories), enabling **junior developers** to execute independently with minimal oversight.
* Delivered a **turnkey solution** designed for handoff, empowering client teams to build and maintain the system cost-effectively without ongoing senior-level dependency.

*Local AI Infrastructure & Self-Hosted RAG Chatbot (Mistral-7B) – Non-Profit Client*

* 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 (Gemini) – Sales Agency Client*

* 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**

* Architected and delivered an **enterprise software suite** using **NestJS microservices** (gRPC, REST) with **PostgreSQL**, migrating legacy **Mulesoft APIs** and improving system efficiency.
* Led **full-stack development** for a mortgage broker platform using **.NET** and **ReactJS**, including credit report integration and pricing engine APIs.
* Built multiple **ETL pipelines** and **API integrations** connecting **HubSpot**, **SharePoint**, **Snowflake**, **Salesforce**, and third-party data providers for automated data flow across enterprise systems.
* Developed **Snow Portal**, a custom job scheduling system for **Snowflake** as an **Alteryx alternative**, and implemented automated **HR-to-ITSM** workflows.
* Prototyped modern UI initiatives and explored **DBT** for version-controlled data transformations.

**EARLY CAREER**

**Transcat, Inc.** *–* Senior Software Engineer (04/2022-01/2023)  
*• Led team delivering .NET Web APIs and React app for lab equipment calibration; integrated internal systems and enhanced Magento-based e-commerce platform.*

**LeaseTrack, Inc.** *–* Senior Software Engineer (06/2021-04/2022)  
*• Built Python + AWS Textract ML tools for insurance document parsing; developed Java Spring Boot annotation system for ML training workflows.*

**Akmazio LLC** *–* Senior Software Engineer (05/2020-05/2021)  
*• Led Agile development for mobile networking platform; built C#/.NET backend with MS SQL, deployed to DigitalOcean.*

**Bestpass, Inc.** *–* Software Engineer (09/2019-04/2020)  
*• Delivered toll billing system using C# MVC and Knockout.js; introduced automated unit testing for legacy codebase.*

**New York State Insurance Fund** *–* Software Engineer (03/2015-08/2019)  
*• Migrated legacy systems (VB6 to C# MVC), refactored Oracle EDI integrations, mentored junior developers, and standardized engineering processes.*

**Town & Country Computer Services** *–* Junior Software Engineer (07/2013-03/2015)  
*• Built C# ASP.NET web applications for insurance quoting, rating, and reporting systems.*

**EDUCATION & CERTIFICATES**

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

*Certified ScrumMaster***,** ScrumAlliance (Awarded: 2021)