







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:

Languages & Frameworks:

Databases & Data:

Cloud & Infrastructure:

Integration & Automation:

Methodologies & Soft Skills:

Privacy & Tooling:

RAG Architecture, Vector Databases, LLM Orchestration, ChatGPT, Claude, Prompt/Context Engineering, AI Agents

Python, JavaScript, C#, NestJS, Flask, .NET WebAPI, React, Next.js

PostgreSQL, Snowflake, SQL Server, FAISS, Vector Stores

Azure (Service Bus, Functions, Storage), AWS, Docker, Ubuntu Server, CI/CD Pipelines, Microservices Architecture

Microsoft Graph API, REST/gRPC APIs, Webhooks, Job Schedulers, ETL Pipelines

Process Engineering, Solutions Architecture, Technical Documentation, Agile/Scrum, Consulting, Team Enablement

Proton, Ubuntu, GrapheneOS, System76, Warp, Claude Code

PROFESSIONAL EXPERIENCE

Adam Matthew Steinberger LLC

Staff Software Engineer

Greenville, SC

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** 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 (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

Senior Software Engineer

Greenville, SC

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)