ADAM MICHAEL SPAULDING

Nassau, NY
spaulding872@gmail.com

PROFESSIONAL SUMMARY

Backend and platform engineer focused on scalable system design for cloud data infrastructure and production AI agents. Led platform work projected to save ~$54K/yr on AWS and cut large pipeline runtimes 3x to 32x. Core engineer on an AI product automating client integrations, from raw ERP data to a live web app. Known for high output and end-to-end ownership.

CORE TECHNICAL SKILLS

Languages: Python, SQL, TypeScript, JavaScript, Bash
Backend and data: REST APIs (FastAPI, Django), PostgreSQL, Redis, Pydantic, Polars, pandas, DuckDB, Parquet, ETL/ELT
Cloud: AWS (ECS Fargate, Batch, Lambda, S3, DynamoDB, Aurora), Terraform, Docker, Linux, GitHub Actions CI/CD
AI engineering: Production AI agents (Claude Agent SDK), context engineering, LLM eval and safety harnesses, guardrails
Agentic workflows: Claude Code (custom skills, subagents), background coding agents, AI code review
Engineering: Distributed systems, event-driven pipelines, multi-tenant SaaS, performance and cost optimization, on-call

PROFESSIONAL EXPERIENCE

Pepper | *AI-first platform for independent distributors* — Apr 2025 – Present

Software Engineer II | Platform — Jun 2026 – Present

- Drive performance and cost initiatives for the data ingestion platform (~25K pipeline runs a day on AWS Batch and Fargate).
- Led the move from JSONL to Parquet storage: 44x smaller files, 93% less data written, ~$42K/yr projected S3 savings.
- Rebuilt PostgreSQL ingestion with concurrent upserts, parallel validation, and Polars vectorization (3x to 32x faster).
- Leading the consolidation of 29 client pricing systems into a single pricing engine; 12+ migrated at 97%+ price parity.
- Switched pricing pipelines to delta ingestion and content-based triggers, ending full reloads of 6M+ rows per run.
- Built Claude Code skills and agent runbooks that let implementation teams extend ERP integrations on their own.

Software Engineer I | AI Integration Platform — Dec 2025 – Jun 2026

- Core engineer on an AI product that turns raw ERP data into a live web app, with its ETL pipeline up within 10 minutes.
- Hardened the product's coding agent (Claude Agent SDK) with hallucination checks, CI-gated PRs, and A/B routing.
- Built an LLM feature that converts plain-English data rules into config, backed by a live eval suite.
- Led the switch from LLM-written code to a deterministic, spec-driven renderer: reproducible output at lower cost.
- Created a drag-and-drop onboarding flow editor (React, TypeScript) and self-serve portal backend; first client live in 2 days.
- Extended the product to 7 ERPs, including QuickBooks Online (OAuth) and NetSuite.

Forward Deployed Engineer — Apr 2025 – Dec 2025

- Launched ERP integrations for 35+ distributors: Python ETL pipelines, on-prem EDI connectors, and real-time pricing.
- Built exporters that send orders, payments, credit requests, and price edits back into each client's ERP.
- Owned integrations across dozens of ERPs, from scoping with client IT teams through launch and support.
- Turned one-off client builds into reusable ERP integrations, so each new client starts from shared, tested code.

Ginsberg's Foods | *Hudson, NY* — Apr 2023 – Apr 2025

Data Programmer / Analyst — Jan 2024 – Apr 2025

- Designed and ran a self-hosted data warehouse (Linux, MySQL, ClickHouse) with ETL from ERP, EDI, and web sources.
- Automated company reporting, built EDI integrations, and developed time-series forecasting models.

Business Analyst — Apr 2023 – Jan 2024

EDUCATION

Bachelor of Science (BS), Software Engineering | Western Governors University — 2026
Master of Business Administration (MBA), summa cum laude | Clarkson University — 2016
Doctor of Pharmacy (PharmD), summa cum laude | Albany College of Pharmacy and Health Sciences — 2012