

ADITYA CHOUDHARY

Chicago, IL, USA | 312-608-6144 | adityacaug15@gmail.com | LinkedIn | Website

Profile Summary

Full-stack AI engineer and sole owner of AI, data, and automation at a construction contractor, taking each internal product from discovery through specification, build, QA, rollout, and support. Every product shipped so far is in daily use across field and office teams and together they reclaim about 5 staff hours a day, roughly \$57K to \$65K a year in loaded labor cost. I build the LLM logic and the Azure infrastructure it runs on, cost every AI request against the capacity it would reclaim, and am now extending this into tool-calling agents that automate email intake and reporting. AWS-certified.

Skills

- **AI & Agents:** LLM / RAG applications (OpenAI API), tool-calling agents, prompt design, evaluation harnesses and ground-truth suites, confidence gating, MCP, prompt-injection defense, Claude Code
- **Product & Delivery:** requirements gathering, specifications and acceptance criteria, edge-case analysis, scoping and prioritization, onboarding, adoption with non-technical users
- **QA & Rollout:** test plan design, regression and ground-truth suites, API testing (Postman), UAT with field users, release gating, rollout runbooks, post-launch monitoring, defect triage and root-cause analysis
- **Technical:** Python, JavaScript / TypeScript (React, Node / Express), SQL (Azure SQL, Redshift), Java; REST APIs, webhooks, ETL pipelines, SharePoint / Microsoft Graph; Git, Docker, Azure, AWS

Experience

RAMS Contracting, Cloud Automation Engineer

January 2025 - Present

- Eliminated 2 hours a day of manual reconciliation on paper trucking tickets (\$23K to \$26K a year in loaded labor cost) by delivering the Trucking Ticket Management System (React, Node / Express, Azure SQL), now used by 60 people across 15 jobs at 20 to 30 tickets per day, with Entra ID verification, cost code splitting, and invoicing
- Reclaimed about 2 staff hours a day (\$23K to \$26K a year in loaded labor cost) by shipping a production retrieval assistant over SharePoint (Azure, OpenAI API) that serves roughly 50 staff at about 150 queries per week, with answers gated on confidence thresholds and each release cleared against a 60-question ground-truth suite
- Saving about 1 staff hour a day (\$11K to \$13K a year in loaded labor cost) on email intake and report preparation with a tool-calling agent (OpenAI API, Microsoft Graph, Azure) that recognizes target emails, files attachments to the job's SharePoint folder, replies to the sender, alerts the job's foremen, and generates job reports
- Avoided recurring model cost on drawing revision overlays by costing a tool-calling agent against the capacity it would reclaim, then delivering the same outcome with a Python and Bluebeam batch automation
- Ship releases field crews rely on daily by defining the test plan and edge-case matrix before implementation, piloting with crews, and monitoring logs and support requests to surface defects users do not report
- Drive adoption across field and office teams as sole owner of product, design, and build: run discovery with operations and accounting, and turn demo feedback and support requests into specifications that ship without follow-up

Noble House Solutions, Software Developer Intern

June 2024 - August 2024

- Improved processing throughput approximately 35% by consolidating 12 source systems into Redshift with ETL pipelines on AWS (Python, Docker, Lambda, S3) and resolving schema drift and data-quality failures in the existing jobs

Amazon, Business Operations Specialist (QA)

January 2022 - July 2022

- Ran QA for high-impact system migrations, executing test plans, validating cross-system data consistency before sign-off, and triaging production defects to root cause

Projects

Airlock, Open-Source Agentic-AI Security Platform (Python, MCP, LLM agents, Ed25519/HMAC)

- Open-source trust boundary between an AI agent and the MCP servers it calls, containing prompt injection embedded in tool output, resources, and retrieved documents. Ships as a scanner, enforcing proxy, and audit ledger
- Hardened through multi-agent adversarial audits across nine attack categories, resolving 19 issues; 307 tests in CI
- Validated at ecosystem scale by statically scanning roughly 1,000 public MCP servers with no injectable surface

Lumen, Real-Time AI Equities Dashboard (React, real-time data, analytics)

- React dashboard tracking the eight companies driving the AI trade, with live pricing, an RSI screener, and risk views

Education

Master's in Computer Science, DePaul University, Chicago, IL

September 2022 - August 2024

Certifications

AWS Certified Cloud Practitioner

November 2024

Oracle Certified Professional, Java SE 8 Programmer

March 2021