Muhammad Azam

AI Automation Engineer

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SUMMARY

AI Automation Engineer who designs and ships production AI systems end to end -- multi-agent LLM pipelines grounded in real data, full-stack platforms with real payments and video, and the CI/CD that keeps them reliable. Three flagship products are live today, not prototypes.

SELECTED PROJECTS

QuranicLens -- *quraniclens.vercel.app*

- 4-agent LLM pipeline (DeepSeek, Claude Sonnet/Opus, Gemini) synthesizes grounded answers across 6 lenses -- tafsir, hadith, science, history, and scripture parallels.
- 78,000+ records embedded with pgvector (Postgres/Supabase); retrieval-first architecture forbids the model from citing anything outside verified source data.

FreshTrack -- *freshtrack-sigma.vercel.app*

- Mobile-first PWA for restaurant inventory: batch-level FEFO tracking, barcode scanning, and rule-based reorder forecasting.
- Multi-tenant access control (Supabase Auth), CSV import, and waste analytics dashboards built on Drizzle ORM + Postgres.

LMS Platform -- *self-hosted on AWS EC2*

- Course marketplace with Stripe Checkout, Mux signed video playback, and Clerk role-based access (student/instructor/admin).
- One codebase ships to production two ways -- Vercel, and a self-hosted Docker container on EC2 via a GitHub Actions -> ECR -> EC2 pipeline.

EXPERIENCE

AI Automation Engineer -- Independent

2024 -- Present, Remote

- Designed and shipped three production AI/full-stack products end to end: architecture, data model, AI pipeline, deployment.
- Built multi-agent LLM pipelines using retrieval-grounded context instead of model training data.

Data Science Intern -- The Spark Foundation

09/2023 -- 10/2023, Remote

- Designed and optimized machine learning models to improve prediction accuracy; built data visualizations for actionable insight.

Data Science Intern -- Omdena

08/2023 -- 09/2023, Remote

- Cleaned and preprocessed large datasets for a fake-news detection model; ran EDA for a weather-forecasting initiative with a global team.

Workflow Automation Specialist -- Freelance

12/2019 -- 01/2023, Remote

- Designed end-to-end workflow automation and integrated AI tools into client systems for data collection, analysis, and reporting.

SKILLS

Languages and Frameworks: TypeScript, JavaScript, Python, Next.js 16, React 19
Data and AI: PostgreSQL, pgvector, Prisma, Drizzle ORM, multi-agent LLM orchestration, RAG, OpenRouter, embeddings
Infra and DevOps: Docker, AWS (EC2, ECR), GitHub Actions CI/CD, Vercel, nginx
Integrations and Platform: Stripe, Clerk, Mux, Supabase, NextAuth, n8n

EDUCATION AND LANGUAGES

Bachelor of Computer Science (Expected) -- Virtual University of Pakistan, since 02/2025
Urdu -- Native | English -- Professional Working Proficiency