

RAO MUHAMMAD HAMZA

AI Engineer

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SUMMARY

AI Engineer specializing in production-grade GenAI, including RAG pipelines, LLM orchestration, and semantic search. Backed by a Data Science foundation, with a track record of cutting manual workloads by up to 70% across healthcare, media, and analytics. Skilled across the full stack, from vector databases and prompt engineering to deployment and cross-functional delivery.

EXPERIENCE

Business Planning Analyst

Apr 2026 - July 2026

L'Oreal Paris

- Unified 3-4 disparate data sources into one standardized Excel model, eliminating inconsistencies that had been undermining reporting accuracy
- Cut sales reporting turnaround from several days to same-day by building and automating a daily Excel report, speeding up leadership decisions
- Became the go-to source for analytical summaries and insights relied on by teams across the organization
- Owned the Salesflo platform end-to-end, as sole point of contact for troubleshooting, support, and daily operations

System Developer & Analyst

Sep 2025 - Present

GEO TV Network

- Architected a RAG-based Content Management System using Qdrant and Kimi LLM to enable semantic search across 1,000+ scripts, reducing manual information retrieval time by 70%.
- Developed DramaGPT Analytics to transform legacy production metadata into a conversational knowledge base, enabling C-suite natural language queries and accelerating strategic decisions by 3x.
- Engineered an automated WhatsApp communication pipeline via Puppeteer and GCP to sync executive messages with a Next.js dashboard, eliminating 90% of manual forwarding overhead and establishing persistent audit trails.
- Built a collaborative AI scripting assistant for GEO Entertainment that expands one-line premises into structured episode drafts, auto-generates visual pitch decks, and runs continuity checks that flag plot holes in a story.

Founding Engineer

Jul 2024 - Present

Sehatlings

- Architected a dual-mode medical intelligence platform utilizing Claude 3.5 to automate biomarker extraction and pathology triaging, reducing manual review time by 70% for high-volume laboratories.
- Engineered a RAG-based clinical engine with Chain-of-Thought prompting to transform static lab data into interactive health roadmaps and specialty-specific physician referrals.
- Deployed a full-stack GenAI infrastructure with integrated clinical safety guardrails and confidence scoring to ensure high-accuracy medical interpretations while democratizing complex laboratory data comprehension.

Data Quality Analyst

Sep 2024 - Sep 2025

NielsenIQ

- Architected automated statistical validation protocols for consumer datasets using Power Query to identify biases and outliers, ensuring high-quality data integrity for downstream predictive modeling and analytics.
- Established robust data lineage and quality gates to resolve systemic collection issues at the source, preventing corrupted inputs from reaching analytical pipelines through cross-functional collaboration.
- Developed automated KPI monitoring dashboards to track dataset health and statistical distributions, reducing manual validation latency by 40% while delivering real-time stakeholder insights.

- Architected a real-time AI inference pipeline utilizing YOLO for automated threat detection, optimizing edge model serving to achieve sub-second latency for mission-critical surveillance.
- Integrated an event-driven alerting framework via the Pushover API to automate real-time threat notifications, digitizing the response layer and eliminating manual monitoring loops.
- Engineered a scalable full-stack MLOps workflow bridging computer vision backends with fault-tolerant notification pipelines to handle high-frequency inference requests reliably.

EDUCATION

Bachelor of Data Science	Sep 2020 - Dec 2024
Institute of Business Management	
A-Levels	Sep 2018 - Aug 2020
Roots Millennium College	
O-Levels	Aug 2016 - Aug 2018
St Paul's English High School	

PROJECTS

resume-wesume
Creator
• Built ResumeWesume, a local-first AI resume editor (Python/FastAPI, Next.js, SQLite) that imports an existing PDF or Word resume, tailors it to a pasted job posting by rewriting and reordering bullets one edit at a time, and exports a clean ATS-safe PDF via headless Chromium, with pluggable models through LiteLLM running Ollama locally or hosted APIs
EDI.ai
Creator
• Built EDI, an open-source local-first AI spreadsheet Software (MIT) that answers natural-language questions over CSV/Excel data, covering filtering, cleaning, charting and formula generation. Compiles simple queries to SQL and routes complex ones through a LangChain ReAct agent, with pluggable local and cloud model backends

SKILLS

Technical Skills: Python, SQL, R, TypeScript, C/C+, RAG, LangChain, LlamaIndex, LLM orchestration, Context Engineering, Computer Vision, YOLO, Qdrant, Power Query, Excel
Certifications:
• IBM Data Analysis with Python - coursera.org/verify/BP29BZCVM45H • IBM - Python for Data Science, AI & Development - coursera.org/verify/4FYQXKBE9P8H • Databases and SQL for Data Science with Python - coursera.org/verify/CKEH6SGZ2HJY • Storytelling and Influencing: Communicate with Impact - coursera.org/verify/9V2HSXGDY34F