

OMNIA ALI MOHAMED ALI

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PROFESSIONAL SUMMARY

AI Automation Builder and product-minded engineer with hands-on experience designing, building, and shipping AI-powered workflows, LLM pipelines, RPA automation, and automation systems. Combines a deep technical foundation in Python, LLM APIs, LangGraph, RAG, prompt engineering, and enterprise RPA tooling (Automation Anywhere) with strong product ownership instincts — identifying friction, proposing solutions, and driving them to production. Experienced working cross-functionally in remote SaaS and enterprise environments and communicating clearly with both technical and non-technical stakeholders. Native Arabic speaker with professional English fluency; available full-time aligned with UK working hours.

PROFESSIONAL EXPERIENCE

AI Engineering Intern — Ericsson

Jul 2026 – Present

Cairo, Egypt — Ericsson MEA R&D Hub

- Collaborating with AI Engineering, Data Science, and MLOps teams to develop and implement machine learning models, including generative AI applications.
- Supporting data collection, processing, and analysis for ongoing generative AI and machine learning projects.
- Exploring and prototyping with state-of-the-art generative AI models, including large language models (LLMs) and retrieval-augmented generation (RAG).
- Building and evaluating proof-of-concept ML and GenAI solutions, documenting methodologies and findings for internal presentations.
- Participating in team meetings and cross-functional discussions on project development and innovation at Ericsson's MEA R&D hub.

AI Automation & Workflow Engineer — Freelance / Remote

Jan 2025 – Present

- Designed and shipped end-to-end AI-powered automation workflows for content operations, research, and data-processing pipelines, reducing manual effort by over 60% across active client accounts.
- Built and iterated on multi-agent LLM systems using LangGraph and LlamaIndex, orchestrating retrieval, reasoning, and fact-checking agents to automate previously manual investigation tasks.
- Owned the full problem lifecycle: identified workflow friction through client engagement, prototyped solutions with AI tools, tested in production, and shipped iterative improvements without waiting for formal specs.
- Developed prompt-engineering frameworks and reusable automation templates covering content generation, quality control, and structured data extraction — applied across multiple concurrent client workstreams.
- Integrated AI tools into bilingual (Arabic–English) content workflows, enforcing quality standards and verifying outputs against structured rubrics to maintain accuracy at scale.
- Communicated proactively with clients about progress, risks, and delivered structured status reports and documentation as standard deliverables.

RPA Automation Intern — Nokia

Jul 2025 – Sep 2025

Maadi, Cairo, Egypt

- Developed and maintained Robotic Process Automation (RPA) workflows to automate business processes.
- Built automation solutions using Automation Anywhere.
- Analyzed business processes to identify automation opportunities and improve operational efficiency.
- Integrated bots with enterprise applications, databases, spreadsheets, and document workflows.
- Performed testing, debugging, monitoring, and optimization of automation solutions.
- Collaborated with cross-functional teams to gather requirements and deliver automation projects.
- Documented automation workflows and followed enterprise development standards.

.NET & Cloud Development Intern — Infinity Tech Company

Jun 2025 – Sep 2025

Remote, Egypt

- Built and integrated RESTful APIs, JWT authentication, and EF Core database layers across enterprise-scale ASP.NET Core projects deployed to Azure.
- Applied clean architecture patterns (Repository Pattern, Service Layer) in multi-module codebases; participated in agile code reviews.

Remote

- Led national outreach for Egyptian students across two international competitions, managing 700+ participant groups and receiving the Ambassador Award for Excellent Encouragement in both programs.

SELECTED PROJECTS

Multi-Agent Research Assistant | *Python · LangGraph · LlamaIndex · RAG · Streamlit*

- Orchestrated specialized agents (retrieval, reasoning, fact-checking) via LangGraph to automate complex multi-step research with hallucination-aware output — shipped as a working product, not a prototype.

TestForge-Cloud | *Python · LLM API · Azure · Prompt Engineering*

- Cloud-deployed AI service that auto-generates pytest unit tests from source code; implements prompt-injection sanitization, output constraint enforcement, and AST validation.

DocuMind-AI | *Python · Claude API · RAG · Streamlit · Azure*

- PDF question-answering assistant with RAG retrieval, hallucination-aware prompting, and full Azure App Service deployment.

RAG Faithfulness Study | *Python · LLM API · Pandas · Jupyter*

- Research benchmark comparing direct prompting vs. RAG; evaluated Faithfulness, Correctness, Completeness, and Hallucination Rate across structured rubrics with visualizations.

E-Commerce MVC Platform | *ASP.NET Core MVC · EF Core · SQL Server · Azure*

- Full-featured e-commerce app with cart, ordering, reviews, and role-based admin dashboard using Repository Pattern and Service Layer architecture.

Telegram Appointment Booking Bot | *Python · python-telegram-bot v21 · SQLite · ConversationHandler · Docker · Azure*

- Built a fully functional Telegram bot that walks users through a multi-step appointment booking flow (service → date → time → confirm) using inline keyboards and a ConversationHandler state machine.
- Integrated SQLite for booking persistence with real-time double-booking protection; architecture designed for seamless Postgres swap and webhook/Azure deployment.
- GitHub: github.com/Omnia9789/telegram-booking-bot

TECHNICAL SKILLS

AI & Automation: LangGraph, LlamaIndex, RAG Pipelines, Prompt Engineering, LLM Evaluation, AI Agents, Hallucination Detection, Fine-tuning (LoRA), Secure LLM Design, RPA (Automation Anywhere)

ML & NLP: Machine Learning, NLP, Transformer Models, Hugging Face, PyTorch, TensorFlow, scikit-learn, Tokenization, Embeddings

Languages: Python, C#, SQL, JavaScript, TypeScript

Backend & Cloud: ASP.NET Core, Web API, EF Core, JWT, REST APIs, Azure (App Service, Functions), Docker (basic), Git, GitHub, Linux/Bash

Data & Viz: Pandas, NumPy, Matplotlib, Seaborn, Plotly, Streamlit, Jupyter

Eval Metrics: BLEU, ROUGE, F1, Accuracy, Precision, Recall, WER, MOS

Practices: Clean Architecture, SOLID, Agile/Scrum, Competitive Programming

EDUCATION

Cairo University — B.Sc. Computer Science, AI Specialization

Expected May 2027

Cairo, Egypt | GPA: 3.7 / 4.0

- Relevant coursework: Artificial Intelligence, Machine Learning, NLP, Cloud Computing, Data Structures & Algorithms, Software Engineering, Database Systems

CERTIFICATIONS & ACHIEVEMENTS

- Machine Learning Specialization — Stanford University & DeepLearning.AI / Coursera (2025)
- Hugging Face Agents Course — Hugging Face (2025)

- Google Data Analytics Professional Certificate — Google / Coursera (2026)
- Databases Learning Path — Manara (2026)
- IEEE Xtreme 18.0 Programming Competition — IEEE (2024)

LANGUAGES

Arabic (Native) · English C2 / Professional · French B2

ADDITIONAL INFORMATION

- Based in Cairo, Egypt; fully equipped for remote work with reliable internet and professional home setup.
- Available full-time; primary working hours aligned with UK business hours (1:00 PM – 10:00 PM EGY / 11:00 AM – 8:00 PM UK).