

OMAR SALAMA

Applied AI Engineer | Agentic AI & LLM Systems

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SUMMARY

Applied AI Engineer focused on turning LLM and agentic-system capabilities into reliable, production-grade workflows. Builds **retrieval-augmented generation pipelines, multi-agent orchestration, and business-process automation** using n8n, LangGraph, and structured tool-calling across CRM/ERP systems at Cultiv Bureau. Graduation research engineered a real-time computer-vision pipeline (Vision Transformers, Graph Neural Networks, ONNX Runtime) reaching **96.69% AUROC** for pre-clinical seizure detection. Now looking to bring that same build-and-ship mindset to an Agentic AI or AI Engineering role, closing the gap between research-grade models and dependable production systems.

EXPERIENCE

AI & Automation Engineer (Intern) | Cultiv Bureau

Jul 2026 – Present | Cairo, Egypt

- Designed **n8n automation workflows** that embed LLM intent classification and routing into CRM operations, as measured by faster lead handling, by integrating Bitrix24, Odoo, WhatsApp Cloud API, and REST/GraphQL webhooks.
- Built **RAG and document-intelligence pipelines** — chunking, embeddings, similarity search, and Google Cloud Vision OCR — to ground LLM responses in company knowledge for Arabic and English business documents.
- Cut response errors and token cost across production workflows by engineering structured prompts, **JSON Schema validation, and fallback logic**, then hardened delivery with API retry handling and Cloudflare Tunnel deployment.
- Worked directly with clients to translate operational requirements into automation and AI-enabled solutions, improving reliability across live workflow deployments.

Data Scientist Intern | Manipal Academy of Higher Education (MAHE)

Jul 2025 – Sep 2025 | Manipal, India

- Built and deployed a **Gemini-powered news-summarization chatbot** with context-aware follow-up question generation, evaluated with ROUGE against CNN/DailyMail.
- Co-authored an NLP text-summarization research paper under Prof. Ramakrishna.

PROJECTS

TrueAgent — AI Employee & Multi-Agent Platform (Architecture) | Cultiv Bureau

Aug 2026 - Present

- Designed a **multi-agent orchestration architecture** for CRM/ERP “AI employees,” defining tool-calling, RAG, permissions, approval gates, and observability across Bitrix24, Odoo, and n8n integrations.
- Benchmarked 70+ AI-agent and customer-support products to inform a production-oriented stack (LangGraph, FastAPI, Temporal, OpenTelemetry).

CohereVoice Studio — Speech AI & Meeting Intelligence | [repo](#)

Aug – Sep 2026

- Extended a speech-AI workflow routing multilingual audio through **ASR, diarization, and alignment** into bilingual subtitles and LLM-generated meeting minutes (OpenAI, Gemini, Groq).
- Shipped a Streamlit UI and a GPU-accelerated CLI batch pipeline with automated tests.

Shifaa — AI-Based Patient Monitoring Platform | [Repo](#)

Oct 2025 – Jul 2026

- Engineered the hybrid real-time seizure-detection pipeline (**ViViT, Graph Neural Networks, OpenPose, ONNX Runtime, C++/Python**) for a privacy-first, on-premises hospital-monitoring graduation project, reaching **96.69% AUROC, 90.18% F1, and 37+ FPS**.

EDUCATION

B.Sc. Computer Science & Artificial Intelligence (Dual Degree) — Ain Shams University & University of East London

Sep 2022 – Jul 2026 | Cairo, Egypt | GPA 3.3/4.0

TECHNICAL SKILLS

Agentic AI & LLM: RAG, Multi-Agent Orchestration, LangGraph, Tool Calling, Prompt Engineering, MCP

AI/ML, CV & NLP: PyTorch, TensorFlow, Scikit-learn, Hugging Face Transformers, OpenCV, Vision Transformers

Automation & Integration: n8n, Bitrix24, Odoo, REST/GraphQL APIs, Webhooks, JSON Schema

Programming & Infra: Python, C++, TypeScript, PostgreSQL, Docker, AWS, Git

Certifications: AWS Certified Machine Learning – Specialty • HCIA-AI V3.5