AHMED EHAB

Forward Deployed AI Engineer — LLM, RAG & Agentic Systems

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PROFESSIONAL SUMMARY

Forward Deployed AI Engineer who embeds with clients to turn ambiguous business problems into production **LLM, RAG, and agentic systems**. Owns delivery end to end: stakeholder discovery, technical proposals, architecture, implementation, deployment (Docker, CI/CD), and evaluation. Has shipped AI products and internal platforms for clients in Saudi Arabia, from real-time **computer vision** for construction-tech to an AI CV chatbot for a startup. Strong Python foundation, a habit of AI-assisted engineering, and experience mentoring engineers and teaching 500+ students.

LLM Applications · RAG · AI Agents · FastAPI · Computer Vision · Docker & CI/CD

Forward Deployed Engineering · Client Discovery · Solution Architecture · Technical Proposals & PRDs · Team Mentoring

PROFESSIONAL EXPERIENCE

AI Engineer & Product Owner | **LOCTech** — Jun 2025 – Present

Saudi Arabia (Remote) — software house serving enterprise and non-profit clients

- **Client delivery:** Own the AI product roadmap and lead engagements from discovery to production: run requirement sessions with client stakeholders, write technical proposals, PRDs/BRDs and SRS documents, and convert them into scoped sprints and acceptance criteria.
- **Computer vision:** Built and deployed production CV pipelines (YOLOv8/v10, FastAPI) serving real-time inference for construction-tech (ConTech) clients.
- **Infrastructure & DevOps:** Stood up a self-hosted automation and retrieval stack (n8n, Qdrant, PostgreSQL via Docker Compose) and GitLab CI/CD with a self-hosted runner for Laravel and Next.js production deployments, including health checks and least-privilege deploy permissions.
- **Internal HR & training platform:** Delivered an internal tool for HR and team leads to manage employees and training courses, built with AI-assisted development and reusable service patterns.
- **AI adoption:** Introduced an AI-assisted engineering workflow (Claude Code, MCP) across the tech team and designed an internal AI document generator for proposals, contracts, and PRDs with DOCX/PDF output.

Machine Learning Research Intern | **Nile University** — Jul 2025 – Sep 2025

Egypt (Hybrid)

- Built an end-to-end ML pipeline for chronic kidney disease diagnosis, covering preprocessing, feature selection, model selection, and evaluation.

Technical Instructor | **iSchool · Rocket Academy · Metastatic ME** — Mar 2024 – Sep 2025

Egypt (Hybrid / Remote)

- Taught 500+ students Python, CS fundamentals, AI, and game development at iSchool as part of the DEMI initiative led by Egypt's Ministry of Communications and IT (MCIT).
- Taught MSc students data analysis, machine learning, and bioinformatics (Metastatic ME); delivered FlutterFlow mobile-development training and contributed to curriculum design (Rocket Academy).

SELECTED PROJECTS

Vitalents — Astronaut Health Follow-up | **NASA Space Apps Giza 2026 · 1st Place** — React · TypeScript · Python

- Led a team of four and owned most of the technical work (front end, back end, deployment) of a space-health prototype that connects an astronaut's daily observations and personal context to the next human decision (vitalents.life).
- Won first place at NASA Space Apps Giza 2026, hosted at Zewail City and awarded by Orange Digital Center, and was named a Global Nominee.

Levrro — AI CV Chatbot | **Startup Client** — TypeScript · FastAPI

- Developed an AI chatbot for CV/resume assistance end to end: a TypeScript web frontend and a FastAPI backend integrating LLM APIs.

minihub — Self-Hosted LLM Cluster Tooling | **Open Source** — github.com/alienplus/minihub

- Open-source tooling to run local LLM inference across a cluster of Apple Silicon Mac minis, with OpenRouter as a cloud fallback provider.

Clinical Decision Support for Ovarian Cancer Subtyping — PyTorch · CUDA

- Processed gigapixel whole-slide images (tissue segmentation, patching, stain normalization) and extracted ResNet/VGG features aggregated with Multiple Instance Learning for weakly supervised subtype classification.

Early-Stage Alzheimer's Computer-Aided Diagnosis — PyRadiomics · Scikit-learn

- Extracted radiomics features (GLCM, GLRLM, GLSZM, shape) from MRI and benchmarked tuned classical ML models on accuracy, precision, and F1-score.

TECHNICAL SKILLS

LLMs & Agents	LangChain, RAG, AI agents, tool/function calling, structured outputs (Pydantic), prompt engineering, LLM evaluation, MCP, n8n
Retrieval & Data	Qdrant, ChromaDB, FAISS, PostgreSQL, SQLite, SQL data modeling, Pandas, NumPy
Models & Serving	OpenAI SDK, OpenRouter, Ollama (open-weight / self-hosted LLMs)
Backend & DevOps	Python, FastAPI, REST APIs, TypeScript, React, Docker, Docker Compose, GitLab CI/CD, Linux, Git, CUDA; familiar with AWS
ML & Vision	PyTorch, Scikit-learn, OpenCV, Ultralytics YOLOv8/v10, image segmentation, Multiple Instance Learning
AI-Assisted Dev	Claude Code, Codex, MCP servers, plugins and skills
Languages	Arabic (native), English (professional)

EDUCATION

B.Sc. Computational Biology & Genomics | **Zewail City of Science and Technology** — Sep 2021 – Jun 2025

Specialization in Computer Vision · GPA 3.26 / 4.0 (Very Good)

LEADERSHIP & COMMUNITY

Founder | **Laith YouTube Channel** — May 2022 – Present

- Educational channel guiding high-school students toward competitive undergraduate programs, in partnership with the Dakahlia STEM School College Club (@laith-1536).

Exploration Leader | **TED-Ed @ Dakahlia STEM School** — Dec 2019 – Mar 2021

- Coached a team of 15 in public speaking and technical presentation; delivered the TEDx-style talk "The Happiness Paradox."