Moaz Mosad Eldegwy

AI Engineer

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Summary

AI engineer specializing in **LLM fine-tuning, reinforcement learning (GRPO), RAG and multi-agent systems**. BSc (Hons) in Information Technology and Computing (AI), February 2026. Alongside my studies, freelanced as a software engineer and delivered **65+ client projects**.

Education

Sep 2022 – Feb 2026 **BSc (Hons) Information Technology and Computing (Artificial Intelligence)**, *The Open University*, UK, Second Class Honours (1st Division)

Sep 2022 – Feb 2026 **BSc Information Technology and Computing (Artificial Intelligence)**, *Arab Open University*, Cairo, Egypt, Very Good (GPA 3.34)

Featured Projects

LABD **Loop-Driven Agentic Behavior Distillation (Graduation Project)**

Teaches small language models **multi-step self-correction**. Trained Qwen3 with SFT, LoRA and GRPO; **models and datasets released on Hugging Face**.

LLM Fine-Tuning · Knowledge Distillation · RL (GRPO) · Dataset Engineering · Evaluation

Star Engine **NASA Space Biology Knowledge GraphRAG**

Hybrid RAG and knowledge-graph search over **494 NASA papers**, running fully in the browser. **Team leader**, NASA Space Apps 2025.

Hybrid RAG · GraphRAG · Knowledge Graphs · Vector Search · LLM Reranking

MealGraph **Clinical Nutrition Multi-Agent System**

LangGraph agents with long-term memory, **LP-optimized meal plans** (PuLP) and medical-safety validation. Live on Hugging Face Spaces.

Multi-Agent Systems · LangGraph · Agentic AI · Linear Programming

More **moazeldegwy.com/projects**: demos, code, models and media for every project

Experience

2025 – 2026 **Undergraduate Researcher, Generative AI**, *Arab Open University*, Cairo, Egypt

- Applied Generative AI research under faculty mentorship: **LLM fine-tuning and agentic AI**.

2020 – 2025 **Software Engineer**, *Freelance and Mostaql*, Remote, Part-time, alongside studies

- **6 Mostaql services**: **100% completion rate** and **5-star rating** on every one.
- **60+ projects** through my own network: web development, scraping and automation.
- Built **AI tools** for image compression and automated content generation.
- Ran my own **VPS hosting business** (2021–2023).

Apr 2020 – Jul 2021 **Web Developer**, *Sedealz*, Giza, Egypt

- Built the company and subsidiary websites; main site **ranked above Souq.com** on Google.
- Set up and ran the company's **dedicated server** (Ubuntu, Apache, cPanel/WHM).

Technical Skills

AI & ML	LLMs, SFT, LoRA/QLoRA, GRPO, Knowledge Distillation, RAG, GraphRAG, Agentic AI, Multi-Agent Systems, Deep Learning, Evaluation
ML Libraries	PyTorch, Transformers, Datasets, PEFT, Accelerate, vLLM, Ollama, Weights & Biases, Scikit-learn, Pandas, NumPy, Matplotlib
Agents	LangChain, LangGraph, Google ADK
Engineering	Python, FastAPI, HTTP / REST / APIs, Docker, CI/CD, Git + GitHub, Linux Server Administration, Web Scraping, SQL, MySQL, PostgreSQL, Google Cloud

Competitions & Awards

Jan 2026 **IEEE CASS Student Design Competition**, *IEEE NU Student Branch*
Team leader; project TherMamba.

Sep 2025 **E-Gnite, Nile University**, ***Finalist***
Team leader; 300 teams.

Oct 2023 **NASA Space Apps Challenge Cairo**, ***Top 10 Winner & Best UX Award***
Team leader; 150 teams; EGP 25,000 prize.

Feb 2023 **Shell NXplorers**, *Team Green Future*
Technology to combat desertification and protect food security.

2017 **FEE Robotics Competition**, ***Second Place***
Robotics competition, Faculty of Electronic Engineering, Menouf.

Leadership & Volunteering

Aug 2023 – Sep 2026 **President and Co-Founder**, *Microsoft Student Club, AOU*, Cairo, Egypt
- Led **50+ members**; co-founded the club and led its AI team (2023–25).

Jul 2026 **Generative AI Instructor**, *SBS Summer Camp*
Taught **4 hands-on Generative AI sessions**.

Sep 2023 – Oct 2024 **Head of Technical Department**, *GDSC Zewail City*, Giza, Egypt
Organized the Google Solution Challenge hackathon (AUC, 2024).

2022 – 2023 **Co-Head Tech**, *AOU Robotics Club*, Cairo, Egypt

Nov 2024 – Present **Technology Team Member**, *Egypt Scholars Inc.*, Remote

Events Organized

Sep 2026 **LLM Engineering Bootcamp: From Foundations to Deployment**, *Bootcamp Lead & Day 1 Instructor*, Two days, **300+ attendees**

Apr 2026 **AOU Research Day 2026**, *Event Lead*, Arab Open University

Certifications

DeepLearning.AI	Machine Learning Specialization, with Stanford Online (3 courses)
	Generative AI with Large Language Models
	Neural Networks and Deep Learning
	Generative AI for Software Development Specialization (3 courses)
	Quantization Fundamentals with Hugging Face
Google Cloud	Introduction to Generative AI Learning Path (4 courses)
	Responsible AI: Applying AI Principles with Google Cloud
Coursera	Fundamentals of Reinforcement Learning (University of Alberta)
	Deep Learning with PyTorch: Image Segmentation
Training	Quantum Computing Summer School (ITCS, Nile University, Aug 2025)