Mohamed Hosam Mohamed Software Engineer

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PROFESSIONAL EXPERIENCE

LLM Ops Developer, *TURING (Client: OpenAI)*   09/2025 – Present
- Collaborated directly with an **OpenAI team** on LLM training, evaluation, and iteration workflows.
- Executed and automated large-scale LLM experiments in **Linux-based environments**.

Co-Founder & Backend Developer, *Quantara Tech* ⤢   01/2025 – Present
- Co-founded a software house with two partners, delivering full-stack web and mobile applications to real clients sourced through freelance platforms and direct outreach.
- Lead backend development using Node.js, Express.js, and MongoDB.
- Author and submit technical proposals for client projects and close deals through platforms and in-person meetings.
- Manage the full development lifecycle: from requirement gathering and architecture planning to deployment and client feedback.

Project Coordinator (Part Time), *EYouth* ⤢   10/2024 – Present
- Manage sessions on technical skills, freelancing, and English, managing logistics and resources to meet DEPI objectives.

DevOps Engineer Trainee, *Digital Egyptian Pioneers Initiative*   06/2025 – 12/2025

- Completed intensive hands-on training in CI/CD, containerization, IaC, and cloud deployment.
- Built & deployed *Devopsians* (ICU Reservation System) on AWS EC2.
- Implemented CI/CD using GitHub Actions & Jenkins.
- Containerized services with Docker & orchestrated via Kubernetes.
- Provisioned infrastructure using Terraform.
- Implemented monitoring with Prometheus & Grafana.
- Ranked 3rd Place – Best Project in DevOps Track.

Project Coordinator, *Yat Learning Centers* ⤢   11/2024 – 09/2025
- Oversee the Digital Egypt Cubs Initiative (DECI) across 92 centers, with over 3,000 sessions.
- Monitor 600+ instructors and collaborate with stakeholders to ensure quality delivery.

Content Presenter (Part Time), *iSky Tech* ⤢   02/2025 – 09/2025
- Produce engaging video content for teaching children programming concepts.
- Create scripts and visuals tailored for educational platforms and social media.

SITE Coordinator, *ALMENTOR* ⤢   02/2024 – 11/2024
                                                                                        Cairo, Egypt
- Spearheaded the coordination of the 'Egypt's Digital Cubs' project, engaging 600+ participants in programming education.
- Managed logistics for training sessions, ensured availability of technical support, and upheld strict confidentiality protocols.

Session Lead, *UDACITY*   02/2023 – 08/2024
IN DIGITAL EGYPT CUBS INITIATIVE "DECI" PROJECT.   Cairo, Egypt
- Instructed and led group sessions and workshops, helping nanodegree students deepen their understanding of course content.

Coding Instructor, *iSchool*   01/2024 – 11/2024
- Delivered 200+ coding classes, offering personalized mentorship and project guidance.

Sales Specialist, *iCareer, Green Herbal*   03/2023 – 09/2023
- Enhanced communication, negotiation, and client relationship skills in dynamic environments.   Cairo, Egypt

EDUCATION

FACULTY OF SCIENCE (COMPUTER SCIENCE DEPARTMENT), *CAIRO UNIVERSITY*   09/2021 – Present

SKILLS

Programming Languages
Java | JavaScript | Node.js

Backend Development
Express.js | RESTful APIs | MongoDB | Mongoose ORM | Firebase

Tools
Git | GitHub | Postman | Trello | Asana | Jira

Development Methodologies
Agile | Scrum

GenAI / LLM Ops
LLM Training & Evaluation | Experimentation Pipelines | Linux Environments | Model Output Analysis

Project Management
Requirements Gathering | Sprint Planning | Delivery & Timeline Management | Stakeholder Communication

PROJECTS

Devopsians – ICU Reservation & Management System ⧉, *3rd Place Winner – DEPI*
- Developed a centralized ICU booking platform with structured workflow (Request → Review → Approval → Status).
- Built backend (Node.js, Express, MongoDB) & real-time updates via Socket.IO.
- Developed responsive frontend using React.js & Tailwind CSS.
- Deployed using Docker, Kubernetes, Terraform, and AWS.

Smart Agriculture — AI Plant Disease Detection ⧉, *Web Application*
- Shipped a full-stack app where users upload leaf images and instantly get **Gemini-powered AI disease predictions**
- Built secure auth (JWT), image upload pipeline, and a per-user prediction history dashboard.
- Wired the React UI to REST APIs with smooth UX states (loading/errors) and reliable fallbacks.

Hessah ⧉, *Real Estate Investment Platform*

- Designed and implemented the backend system of a full-stack platform for real estate investment.
- Ensured real-time data consistency and reliable communication across Flutter (mobile) and Next.js (web) frontends.

SkillEra ⧉, *Web Application*
- Developed backend using Node.js, Express.js, and MongoDB for academic guidance platform.
- Implemented recommendations, dashboard, and APIs with JWT authentication and Mongoose ORM.

Padelo ⧉, *Web Application*
- Developed the backend for a scalable padel court reservation system, focusing on secure and efficient operations.
- Utilized Node.js, Express, and MongoDB to build a robust API for seamless front-end communication.

COURSES

GOOGLE PROJECT MANAGEMENT, *COURSERA*   02/2023 – 04/2023

ALUMNI @ NEXTCODERS TIEC -TECHNOLOGY INNOVATION & ENTREPRENEURSHIP   06/2019 – 12/2020
- Udacity - intro to Programming Nanodegree
- Coursera - Applied Data Science Capstone with IBM

AWARDS

Tech Leaders Initiative (Winner), *EMPOWER HUB*   2023
- Secured first place in the Tech Leaders Hub 2022, an educational project powered by EMPOWER HUB, dedicated to raising awareness of computer science education and technology literacy.
- Led Hour of Code initiatives and taught coding & technology literacy to 200+ participants, driving community awareness.

VOLUNTEERING

Tech Talent, *Project Manager*   05/2024 – 05/2025

- Led a dynamic team in organizing Tech Talent, a vibrant community event for students of the Computer Science division at Cairo University.
- Organized Tech Talent event for Computer Science students, managing logistics and resources.
- Coordinated workshops, speaker sessions, networking activities, and engaged external companies for event participation.

IEEE CUSB & GDSC Cairo University, *Head of FR*   2021 – 2023

- Organized fundraising campaigns and community outreach events.
- Trained and managed volunteer teams for greater impact.