Abdelrahman Abozena

AI-Driven Software Engineer | LLM Agents & Machine Learning Systems | Backend & ML Pipelines

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SUMMARY

AI-Driven Software Engineer specializing in building LLM-powered systems, AI agents, and scalable backend infrastructures. Experienced in designing machine learning pipelines, multi-agent architectures, and production-ready APIs using Node.js, Python, and TypeScript. Focused on bridging AI research with real-world software systems and deploying end-to-end AI products.

TECHNICAL SKILLS

AI & ML: LLM Agents, Machine Learning, Multi-Agent Systems, MLOps, Data Fusion, RAG, Data Preprocessing

Backend: Node.js, Express, RESTful APIs, Backend System Architecture

Databases: MongoDB, MySQL

Languages & Tools: Python, JavaScript, TypeScript, Git

WORK EXPERIENCE

Instant Software Solutions | AI & Data Science Engineer | Jan 2026 – Present | Giza, Egypt

- Engineering AI-driven solutions and integrating LLM-powered automation into backend systems.

Digital Egypt Pioneers Initiative (DEPI) | Machine Learning Engineer | Nov 2025 – Present | Egypt

- Developing machine learning pipelines and implementing predictive models for real-world applications.

EgenSolve | Back End Developer | Mar 2025 – Sep 2025 | Giza, Egypt

- Developed a centralized system to manage employee accounts and system issues, linking users directly with developers for faster resolution.

Orange | Trainee | Sep 2024 | Egypt

Crossover | React Developer | Oct 2022 – Dec 2023 | Remote

KEY PROJECTS

Agentic AI Community Simulator

- Built a multi-agent ecosystem to simulate social opinion evolution and emergent group behaviors.

Fusion Project (CTR Prediction)

- Architected a leakage-safe machine learning pipeline for CTR prediction using multi-source fused data.

EDUCATION

Egyptian Chinese University | B.S. in Computer Science

Harbin Institute of Technology | Artificial Intelligence Training Program

CERTIFICATIONS

Google × Kaggle – AI Agents Intensive Certification