

ZIYAD AHMED ALAWAMI

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SUMMARY

Junior AI Engineer focused on developing practical multimodal AI pipelines and RAG systems. Adept at translating machine learning models into functional, containerized backend applications. Passionate about engineering end-to-end solutions, from autonomous agents to Arabic sentiment analysis platforms.

EDUCATION

The British University in Egypt (BUE)

B.Sc. Informatics & Computer Science, AI Major; Grade: Very Good

- Participated in BUE Competitive Programming Club (BUE_CPC) in 2023.

Cairo, Egypt

Sep 2020 – Jul 2024

EXPERIENCE

National Telecommunication Institute (NTI)

AI Instructor

- Instruct and mentor university students in foundational machine learning algorithms and applied neural network architectures.

Egypt (Hybrid)

Jul 2025 – Present

National Telecommunication Institute (NTI)

AI Intern

- Developed practical expertise across core AI domains, including Data Science, Computer Vision, NLP, and Data Engineering, through hands-on industry modules.

Smart Village, Egypt

Feb 2025 – May 2025

PROJECTS

Skepti-Scan | FastAPI, LangChain, PostgreSQL, Docker

- Engineered a RAG-based fact-checking API that cross-references user claims against live web data, bypassing LLM hallucinations to deliver definitive, evidence-backed verdicts. github.com/ziyadalawami/skepti-scan

DarkAtlas Asset API | FastAPI, PostgreSQL, LangChain, Docker

- Developed a modular REST API leveraging LangChain to deploy autonomous security agents. Enabled RAG-based natural language queries and automated vulnerability analysis for asset management. github.com/ziyadalawami/darkatlas-app

One-Sight | Python, FastAPI, Hugging Face, XGBoost, Docker

- Architected a multimodal AI platform for Arabic sentiment extraction across video, image, and text data. Integrated OCR pipelines and a hybrid ML-LLM classification system for high-accuracy analysis. github.com/ziyadalawami/one-sight

Distributed Train Station System | Oracle, SQL, Database Design

- Designed and implemented a comprehensive distributed database architecture, optimizing data distribution across nodes via horizontal, vertical, and hybrid fragmentation.
- Managed distributed query processing and enforced ACID properties through strict transaction management to ensure system-wide data consistency.

TECHNICAL SKILLS

Languages & Databases: Python, SQL, PostgreSQL, NoSQL (MongoDB, Redis), C++, Java, HTML, CSS

AI & Machine Learning: LangChain, Hugging Face, PyTorch, TensorFlow, XGBoost, NLP, RAG, OpenCV

Backend & DevOps: FastAPI, Docker, Git, AWS

CERTIFICATIONS & TRAINING

AI Engineer | 365 Data Science [Credit]

Nov 2025

Natural Language Processing in Python | Maven Analytics [Credit]

Oct 2025

Cloud Basics for Data Professionals | Maven Analytics [Credit]

Oct 2025

AWS Machine Learning Foundations | AWS Academy [Credit]

Apr 2025

Data Science in Python: Data Prep & EDA | Maven Analytics [Credit]

Apr 2025

LANGUAGES

Arabic: Native

English: Advanced