

AHMED ALI

Giza, Egypt | 01092832379 | ahmed.a.ali.tech@gmail.com

linkedin.com/in/ahmedaliy | github.com/ahmedaliy01

PROFESSIONAL SUMMARY

Computer Engineering student specializing in Data Engineering, with hands-on experience designing end-to-end ETL pipelines, relational data modeling, and containerized architectures (Docker, MySQL, PostgreSQL). Track record of building reliable data workflows and integrating LLM/RAG systems. Currently expanding cloud data skills through the DEPI Microsoft Data Engineer track.

EDUCATION

Bachelor of Science in Computer Engineering

Pharos University in Alexandria (P.U.A.) | CGPA: 3.8 / 4.0 | Expected Graduation: 2029

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, C, C++, Java
- **Data Engineering & Databases:** ETL/ELT, Data Pipelines, Data Transformation, Data Cleaning, Data Modeling, Data Warehousing, MySQL, PostgreSQL, SQL Server
- **Tools & Infrastructure:** Linux, Docker, Git, GitHub
- **AI & LLMs:** Retrieval-Augmented Generation (RAG), Vector Search, Ollama (Local LLM execution)

PROJECTS

End-to-End ETL Pipeline | [GitHub Repo](#)

Python, SQL, MySQL, Docker

- Built a containerized ETL pipeline that extracts raw CSV data, cleans and standardizes it, and loads it into a MySQL database running in Docker.
- Implemented schema normalization and encoding-safe parsing to handle inconsistent raw data formats reliably.
- Automated database schema creation and data ingestion, mapping transformed data directly into relational MySQL tables using SQLAlchemy.

SAGE Clinical RAG | [GitHub Repo](#)

Python, RAG, Vector Search, Ollama

- Contributed to a clinical Retrieval-Augmented Generation system built during an AI Hackathon, covering document processing, retrieval, and grounded answer generation from medical guideline sources.
- Implemented components for evidence-grounded, citation-verified LLM responses, including abstention behavior when supporting evidence was insufficient.
- Integrated local LLM execution using Ollama as part of the system's answer-generation workflow.

StackCalc Visualizer | [GitHub Repo](#)

JavaScript, React, Data Structures & Algorithms

- Built an interactive web application that visualizes infix-to-postfix expression conversion and step-by-step stack-based expression evaluation.
- Implemented the core stack data structure and operator precedence/associativity logic in JavaScript, with a React front end.

TRAINING & CERTIFICATIONS

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Digital Egypt Pioneers Initiative (DEPI) — Microsoft Data Engineer Track
Data Engineer Trainee | June 2026 – Present (In Progress)
- **SAGE Clinical RAG — AI Hackathon Certificate**
Held in association with CREATIVA Innovation Hubs, ITIDA, TIEC, Orange Digital Center (ODC), and INSTANT Software Solutions

LANGUAGES

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Arabic: Native
- **English:** B2 (Upper Intermediate)