

Mostafa Mohamed Abdelmotall

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Profile

Junior Data Engineer with 2 years of experience designing, building, and maintaining scalable data pipelines and databases. Hands-on experience in data ingestion, transformation, validation, and performance optimization to support analytics, dashboards, and reporting. **Skilled in SQL, Python, ETL/ELT pipelines, data modeling, relational databases (PostgreSQL, MySQL), data warehousing concepts, Pandas, Apache Spark (basic), Apache Airflow (basic), batch processing, data quality checks, Git, Linux, and Agile workflows.**

Education

Bachelor of Computer Science, Arab Academy for Science, Technology & Maritime Transport (AAST)

- Major: Computer science
- General Grade: Excellent

Experience

Junior Data Engineer

Digital Egypt Pioneers Initiative (DEPI) — Ministry of Communications & Information Technology (MCIT)
Dec 2025 – Present | Remote, Egypt

- Developed and maintained **ETL/ELT pipelines** using Python and SQL for data ingestion and transformation.
- Built **data models and structured datasets** to support analytics and reporting.
- Worked with **Python (Pandas, NumPy), SQL, PostgreSQL/MySQL, and basic Apache Spark** for data processing.
- Created **Power BI/Tableau dashboards** to visualize insights and support decision-making.
- Ensured **data quality, validation, and documentation**, collaborating with team members on project delivery.

Courses

Competitive Programming (ACPC)

Arab Collegiate Programming Contest

- Participated in competitive programming contests focused on problem solving and algorithms.
- Strengthened skills in data structures, algorithmic thinking, and logical reasoning.
- Gained experience in solving time- and memory-efficient problems under constraints.

AI-HCIA (Huawei Certified ICT Associate – AI)

- **Certified in AI fundamentals, including machine learning concepts, AI models, and data-driven solutions.**
- **Learned how to integrate AI with networking and ICT systems for improved automation and decision-making.**
- **Developed practical skills in AI deployment, model evaluation, and real-world problem solving.**

Skills

Technical Skills

- **Programming Languages:** C++, Python
- **Data Structures & Algorithms**
- **Problem Solving & Competitive Programming (ACPC)**
- **Databases:** SQL, MongoDB
- **AI Fundamentals:** AI-HCIA (Machine Learning Basics, AI Workflow)
- **Web Development:** C++, C, JavaScript
- **Tools:** VS Code, Microsoft Office, Excel

Soft Skills

- **Logical Thinking & Analytical Skills**
- **Teamwork & Collaboration**
- **Time Management**
- **Fast Learner & Adaptability**
- **Problem Solving**
- **Creativity**

Language Skills

- **Arabic:** Native
- **English:** Very good

Projects

TCP Network

We built a simulation of the TCP protocol transport layer to visualize all the scenarios we start the connection with the three way handshake, we have a five scenarios (packet corrupted, packet loss, time out, ACK lost, ACK time out)

Blood Bank Database

We built a virtual database project for blood bank, we went to the hospital and collected the data for the project, then we start designing the ERD from the collected data and from the ERD we draw the Schema, we took the data from the schema and implemented it with SQL to build the Database