

# El-Sayed Fathi El-Sayed

## Data Engineer

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### Objective

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Data Engineer with strong skills in building scalable data pipelines, designing data architectures, and automating workflows using Python, SQL, and modern cloud and ETL tools. Certified in Alteryx with experience in Azure and Big Query. Passionate about transforming raw data into actionable insights to support business growth

### Professional Experience

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**Business Intelligence Engineer Trainee, Information Technology Institute (ITI)**

2022

(6 weeks)

- Developed and maintained ETL pipelines using SQL and Alteryx.
- Built Power BI and SSRS dashboards for simulated business cases.
- Practiced best practices in data modeling and workflow design.

### Education

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**Bachelor's degree in computer engineering and systems,**

2018 – 2023

*Faculty of Engineering, Mansoura University*

- Accumulative Grade: Excellence with Honors
- Graduation Project: Horus-AI - Developed a secure AI-powered mobile/web app to guide tourists to archaeological sites in Egypt using a deep learning model (VGG16).

### Technical Skills

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#### Programming & Query Languages

Python, SQL

#### ETL & Workflow Tools

Alteryx Designer, Informatica Power Center

#### Data Warehousing & Databases

SQL Server, Big Query, Data Modeling, Data Warehouse Design

#### Cloud Platforms

Azure

#### BI & Visualization

Tableau, Power BI, Looker Studio

#### Other Tools

Docker, Linux, Microsoft Excel

### Concepts

Data Integration, Pipeline Automation, Performance Optimization, Machine Learning Basics

### Languages

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#### Arabic

Native

#### English

Professional working proficiency

## **Volunteering**

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### **HR Circle Member**

- Helped foster a student IT community in Mansoura University.
- Led onboarding and engagement for new members.

## **Key Projects**

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### **ETL Data Warehouse Solution | Informatica PowerCenter, 2025**

Technologies: SQL Server, Informatica PowerCenter

- Developed ETL mappings integrating multi-source SQL Server data into star schema warehouse.
- Implemented SCD Type 2 dimensions and fact tables for sales, customer, and product analytics.
- Created complex transformations for data cleansing, validation, and business rule implementation.

### **Global Electronics Retailer - Data Engineering & Analytics Project, 2025**

Technologies: SQL Server, Alteryx, Python, Power BI

- Designed and implemented a Data Warehouse using SQL Server with Star Schema (Fact + Dimensions).
- Applied the Medallion Architecture (Bronze, Silver, Gold) to build scalable ETL pipelines for data ingestion, cleaning, and transformation using Alteryx and Python.
- Developed Power BI dashboards for sales analysis, customer insights, profit margin tracking, and currency impact.

### **Data Engineering for E-Commerce, 2024**

Technologies: SQL Server, Alteryx, Python, Tableau

- Designed and deployed scalable ETL workflows for retail analytics.
- Integrated and transformed data from multiple sources for dashboarding.
- Created automated reporting using Tableau.

### **Uber ETL Pipeline, 2023**

Technologies: Azure Storage, Python, Mage Pipeline, Big Query, Looker Studio

- Built end-to-end pipelines for Uber trip data ingestion and transformation.
- Reduced processing time through optimized workflows.

## **Additional Information**

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Available to relocate or work remotely.

Team-oriented, problem-solving mindset with strong communication skills. Keen on continuous learning and automation-first approaches.

## **Certifications & Awards**

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**Alteryx Designer Core Certification**

**Cloud Bronze Medal, Huawei ICT Competition**

**SQL Golden Badge, Hacker Rank**

**Database Management Essentials, Coursera**

**Data Warehouse Concepts, Design & Data Integration, Coursera**

**Data Analysis Professional Track, Udacity**