# Ahmed Galal Mohamed

Cairo, Egypt | 0110 484 6214 | Ahmedgalal.hti@gmail.com | linkedin.com/in/ahmed--galal | github.com/ahmed0120120123-lab

## PROFESSIONAL SUMMARY

Junior Data Engineer with hands-on experience building ETL pipelines with Apache Airflow, designing relational databases in SQL, and collecting data through Python web scraping. Working knowledge of Spark, dbt, Snowflake, Azure, Docker, and Git. Experienced in securing data workflows and automating operations with Python. Seeking an entry-level Data Engineer role.

## TECHNICAL SKILLS

- **Languages:** Python, SQL, C++, NoSQL, JavaScript, HTML, CSS
- **Data Engineering:** Apache Airflow, ETL/ELT Pipelines, Apache Spark, dbt, Web Scraping, Relational Database Design, Data Modeling, Data Cleaning and Transformation
- **Data Warehousing and Cloud:** Snowflake, Microsoft Azure
- **DevOps and Tools:** Git, GitHub, Docker, Linux, Windows
- **Security (supporting):** Nmap, Vulnerability Assessment, Access Control, Securing Data Pipelines
- **Spoken Languages:** Arabic (Native), English (A2)

## WORK EXPERIENCE

**Data Engineering Trainee** | Digital Egypt Pioneers Initiative (DEPI), Online | Nov 2025 - Present
- Building end-to-end data pipelines, ETL workflows, and database architecture as part of an intensive data engineering track.
- Built relational databases with SQL and Python to clean, transform, and manage datasets of 50,000+ records.
- Designed and orchestrated ETL workflows in Apache Airflow, including scheduling, task dependencies, and failure handling.
- Developed Python web scraping scripts to collect and structure data from 4 external websites for downstream pipelines.
- Applied security principles to protect data workflows and assess pipeline vulnerabilities.

**IT Support Specialist** | Elshams Farm, Zagazig | Feb 2026 - Oct 2026
- Monitored SQL database performance, managed user access controls, and performed scheduled data maintenance.
- Optimized network database access speeds.
- Automated system backup workflows with custom Python scripts, eliminating manual backup work.
- Managed network infrastructure and system security for 200+ users/devices on Linux and Windows, including Nmap vulnerability assessments and security patching.

**Programming Instructor** | Baccalaureate Students (Grades 1 and 2), In-person and Online | Oct 2026 - Present
- Teach programming fundamentals to 40 students through in-person and online sessions.

## PROJECTS

**Automated ETL Pipeline with Airflow** | Python, Apache Airflow, SQL, Web Scraping | 2026
- Built a scheduled ETL pipeline using Airflow DAGs to extract, clean, and load data into a relational database.
- Wrote Python scraping scripts to collect raw data from external websites as the pipeline source.
- Debugged task failures, optimized DAG scheduling, and improved pipeline reliability.

**Network Reconnaissance and Vulnerability Scan** | Nmap, Linux, Python | 2026
- Performed host discovery, port scanning, and service/version detection on local networks using Nmap.
- Analyzed results with Linux command-line tools to identify open ports and misconfigurations across 20 hosts.
- Produced a vulnerability report with prioritized mitigation recommendations.

## EDUCATION

**Higher Technological Institute (HTI)** | B.Sc. in Computer Science | Expected Sep 2029 | Grade: Good

## CERTIFICATIONS AND TRAINING

- **Python Programming and Problem Solving** - HackerRank | Mar 2026 - Jun 2026 | Problem Solving (Python) Certificate

## LEADERSHIP AND ACTIVITIES

**Student Union Member and Event Organizer** | HTI Student Union | Nov 2025 - Present
- Co-organized "Clash of Code," a multi-university data analysis competition for 100+ attendees; coordinated registrations, logistics, and scheduling.

**Representative, Universities Forum** | Aug 2026 - Sep 2026
- Presented the Computer Science department's programs and career tracks to visitors and students.