

Mazen Ahmed Shams

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Age: 24 | Military Status: Exempted

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EDUCATION

- Faculty of Engineering, Alexandria University

October 2019 – July 2024

Bachelor of Engineering, Major in Computer Science and Communication Engineering.

CGPA: 3.17
- Alexandria Language School

July 2019

High School Certificate (IGCSE)

99.3%

PROFESSIONAL EXPERIENCE

- Microsoft Data Engineer Training Program (DEPI)

June 2025 – December 2025

Training program focusing on Microsoft tools for data management and processing. Covered skills include Prompt Engineering, Microsoft SQL Essentials, implementation of a SQL data warehouse, advanced Python programming, data science with Python, Azure Data Engineer Associate, SQL, Azure, Data Engineering, DevOps, and a Capstone Project.
- iSchool — Software Coding Instructor

December 2024 – June 2025

Taught programming concepts to kids aged 8 to 16; delivering interactive lessons on coding fundamentals, problem-solving, and project-based learning; using tools and platforms tailored for young learners.
- Faculty of Engineering — Teaching Assistant (TA)

September 2024 – December 2024

Taught Programming Language Translation (PLT); assisting students with course materials, assignments, and projects, and providing guidance on programming language translation concepts.
- RMZ — Intern Backend Developer

July 2023 (1 month)

Learned relational databases and back-end development with MySQL and phpMyAdmin; basics of Laravel; developed a Blog website for the training project.

TECHNICAL SKILLS AND INTERESTS

- Languages: Arabic (Native), English (Fluent)

Version Control and Collaboration: Git
- Programming Languages: C/C++, Dart, Golang, Java, Python, HTML, CSS, PHP, SQL, JavaScript

Microcontrollers: ATmega16, 8051, Arduino
- Cloud Technologies: AWS (Data Analytics, Security, Cloud Foundations), Cloud Computing, Docker, Kubernetes

Software Development and Testing: Python Testing, DevOps Concepts
- Data Engineering Tools and Techniques: ETL and ELT pipelines, Apache Airflow, Data Cleaning and Ingestion with pandas, Writing Efficient Python, PySpark (RDD, SQL, DataFrames), Apache Kafka, dbt

Big Data and Modern Data Architecture: Spark, Introduction to Big Data Analysis
- Databases: MySQL (Relational), Database Design, Data Warehousing, Snowflake, NoSQL

Areas of Interest: Data Engineering, Data Science, Cloud Computing
- Libraries: Flutter, pandas

Soft Skills: Self-learning, Presentation, Adaptability, Time Management, Memory, Teamwork, Work ethic, Communication

SELECTED PROJECTS

More projects on my GitHub (Click here).

- **SQL & Snowflake — Soccer Insights for a Sports Media Agency:** Built analytical SQL models in Snowflake to generate player/team KPIs and match insights.
- **Building a Retail Data Pipeline:** Prototype batch ingest-transform pipeline with modular notebooks and reproducible runs.
- **Cleaning an Orders Dataset with PySpark:** Standardized schema, handled nulls/deduping, and produced curated outputs using DataFrames.
- **Debugging a Sales Data Workflow:** Diagnosed logic/data-quality bugs in a sales ETL; added validation checks and assertions.

- **SQL — Exploring London's Travel Network:** Joins/window functions to compute route KPIs and station metrics.
- **SQL — Analyzing Student Mental Health:** Aggregations and demographics breakdowns for survey trends.
- **Graduation Project — ASD Mobile Application:** Mobile app for autistic children with AI chatbot, face detection, AR, and emotion recognition.

LICENSES AND CERTIFICATES (EACH TITLE IS CLICKABLE TO VIEW CERTIFICATE)

- **DataCamp – Certified Data Engineer**
 - Key Skills: ETL/ELT pipelines, Apache Airflow, PySpark (RDD, SQL, DataFrames), Apache Kafka, Database Design, Data Warehousing, Snowflake, Writing Efficient Python Code, Modern Data Architecture, Docker, and Kubernetes.
- **DataCamp – Certified Data Engineer Associate**
- **DataCamp – Professional Data Engineer Track in Python**
- **DataCamp – Data Engineer Track in Python**
- **DataCamp – Associate Data Engineer Track (SQL)**
- **AWS Academy Graduate – AWS Academy Data Analytics**
- **AWS Academy Graduate – AWS Academy Cloud Security Foundations**
- **AWS Academy Graduate – AWS Academy Engineering Operations Technicians**
- **AWS Academy Graduate – AWS Academy Machine Learning Foundations**
- **AWS Academy Graduate – AWS Academy Cloud Foundations**
- **Embedded Systems Course at Semicolon**