

Abdelrahman Ashraf | Data Engineer

🌐 Junior Data Engineer, ETL Developer, Cloud Data Engineer, willing to relocate

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+ Studied Software Engineering at AASTMT : Arab Academy for Science, Technology & Maritime Transport

Professional Profile

As a highly motivated Junior Data Engineer with a passion for working with data-driven technologies, I specialize in building efficient data pipelines, cleaning and transforming data, and supporting data architecture projects. With a solid foundation in Python, SQL, and cloud platforms, I am eager to apply my technical skills to contribute to dynamic data teams. I possess a keen interest in learning new tools and methodologies, and I thrive in collaborative environments where I can support senior engineers while growing my expertise in data engineering practices.

Core Skills

Databases:

- Relational: PostgreSQL, SQL Server, MySQL
- NoSQL: MongoDB, Cassandra
- Cloud-Based: Amazon Redshift, Google Big Query

Data Processing & Engineering Tools:

- Tools: Jupiter Notebook, Google Collab, pgAdmin 16, PyCharm
- Cloud & Big Data: Microsoft Fabric, Microsoft Azure, AWS, Apache Hadoop, Spark, Apache NiFi, AWS Glue
- Data Integration: Data integration tools and techniques

Programming Languages:

- Python, JavaScript, SQL, Java, C, C++

Data Analysis & Transformation:

- Data Preparation: Feature selection, data encoding, data normalization
- Automation & Scripting

Other Skills:

- Embedded Operating Systems, AI Concepts
- Project Management, Problem-Solving

Education

- "I am a third-year student at the Arab Academy for Science, Technology & Maritime Transport (AASTMT), pursuing a degree in Software Engineering within the Faculty of Computer and Information Science [Grade: Excellence | GPA : 3.4 / 4.00] " | AASTMT | Sep 2022 - Jul 2026

Career Summary

Jul 2024 - Aug 2024

Agricultural Bank of Egypt
Network Security

Outline

"I completed a four-week Network Security internship at the Agricultural Bank of Egypt, where I gained hands-on expertise in network security. I developed and implemented security protocols that reduced potential vulnerabilities and collaborated closely with IT and banking services to enhance the overall security of the infrastructure."

Jan 2023 - Apr 2023

**Zewail
AI Engineer**

Outline

"I completed a 50-hour internship in AI and Machine Learning at Zewail College, where I gained foundational experience in implementing AI models and machine learning algorithms."

Mar 2024 - Sep 2024

**DEPI
Data Engineer**

Outline

"I completed a five-month data engineering internship at DEPI, where I gained valuable experience in designing and managing data pipelines, processing large datasets, and optimizing data workflows."

**CCNA
Network Associate**

Outline

"I earned my CCNA certification, becoming a Cisco Certified Network Associate, demonstrating my expertise in networking fundamentals."

Additional

Hobbies & Interests

Running

Programming Languages

Python, SQL, Java, Scala, R, Go, Shell Scripting (Bash), TypeScript and JavaScript, C , C++, C#

Languages

Arabic, English

Awards

- 1- Ranked as the top student in the Software Engineering Department at my university.
- 2- Solved over 500 problems on various online judges, including Code forces, Judge, and LeetCode..

Extracurricular Activities

Drone Competition Participant

– Developing and testing drones with a focus on data-driven controls and analytics

Gym

– Regularly attending to maintain fitness and discipline

Projects

Customer Feedback Analysis and Improvement – Telecom Company

- Developed a data warehouse schema in PostgreSQL to link customer data, service plans, and city demographics.
- Conducted feature engineering and encoding for customer behaviour and service usage, enabling churn prediction.
- Provided insights on customer satisfaction to drive service improvement and retention strategies.

Educational Platform Data Analysis

- Analysed seven datasets, including courses and student information, to derive insights on student engagement and progress.
- Built transformation scripts for data loading into PostgreSQL, enabling efficient analysis and reporting.

Supreme Educational App (Backend Development)

- Architected backend structure with Express.js, enabling features like student enrollment, progress tracking, and conference meetings.
- Integrated functionalities for teachers, students, and parents, including video import, exam management, and real-time collaboration.

Collaborative Online Whiteboard Platform Development

Role: Project Manager

- Oversaw project roadmap and milestone tracking, ensuring timely development of features for online collaboration.