Moaz Shaker Abdelhamid

Data & Analytics Engineer | RPA Developer

📍 **Riyadh, Saudi Arabia (Ready to relocate)**   📞 **+966 55 940 8464**   ✉ **Moazshaker121@gmail.com**

in **linkedin.com/moazshaker**   ⊙ **github.com/moazshaker**   💼 **Moaz Shaker's Portfolio**

PROFILE

Self-motivated junior Data Engineer with a respectable foundation in web development, intelligent automation (UiPath), and data engineering. Certified in UiPath, with hands-on experience in automating workflows and optimizing processes. Skilled in problem-solving, and collaboration, and eager to contribute to impactful technical projects. Proficient in big data tools, focusing on learning and growing in the field.

EXPERIENCE

Data Engineer

Deraah Trading Company, Riyadh, Saudi Arabia | May 2025 – Present

- Assist in building and maintaining ETL/ELT pipelines.
- Work with tools like Apache Airflow, AWS Glue, or Azure Data Factory.
- Combine data from multiple sources (APIs, databases, flat files).
- Perform basic data wrangling using Python, SQL, or Spark.
- Support database design and development (PostgreSQL, MySQL).
- Assist in managing and loading data into data warehouses (Snowflake, BigQuery, Redshift).
- Work closely with data analysts, data scientists, and senior engineers.
- Document data pipelines, schemas, and transformations.
- Help create simple reports or dashboards when needed.

Digital Analyst

Field Tech, Riyadh, Saudi Arabia | Sept 2024 – April 2025

- Documented and optimized 10+ cross-functional business processes, reducing redundancies by 15%.
- Created detailed workflow diagrams and process manuals using Visio, enhancing clarity and reducing onboarding time by 20%.
- Conducted as-is and to-be process mapping, identifying inefficiencies and recommending solutions that improved operational efficiency by 10%.
- Developed and maintained process metrics dashboards in Power BI, enabling data-driven decision-making for stakeholders.
- Collaborated with cross-functional teams to implement process improvements, ensuring alignment with organizational goals.

Data Engineer Intern

Sprints, Cairo, Egypt | Jan 2023 – Present

- Assist in the design, construction, and maintenance of robust and scalable ETL (Extract, Transform, Load) and ELT (Extract, Load, Transform) pipelines.
- Work with cloud services (like AWS, Azure, or Google Cloud) and on-premise systems to manage and optimize data storage solutions, including data warehouses and data lakes.
- Participate in data cleansing, validation, and testing to ensure the accuracy, consistency of our data.

Education

Business Analysis & Intelligence Automation (IA) Development Track

Jan. 2024 – sept. 2024

- 9-Months Program, Intensive Code Camp (ICC), Training Program (PTP), Mansoura Branch, Information Technology Institute (ITI), Ministry of Communication (MCTI)

Data Engineering Program

Jan. 2023 – Apr. 2024

- Data Engineering Track, Nanodegree Program, Future Work is Digital initiative (FWD), Ministry of

  Communications and Information Technology (MCIT) powered by Information Technology Industry Development Agency (ITIDA), through Udacity

Bachelor of General Business Administration (BBA), Zagazig University

Jan. 2018 – Jul. 2021

  - Cumulative Grade: Excellent with Honors

Projects

Data & BI Projects:

- **Customer Analysis Segmentation:** Responsible for analyzing customer data stored in two CSV files, Churn_Modelling2.csv and Churn_Modelling3.csv. Used Power bi to derive valuable insights and segmentation based on various criteria.
- **Northwind Data Warehouse:** Architected and designed a data warehouse dimensional model inspired by Medallion architecture on PostgreSQL and Designed and implemented the ELT for sales process and CDC with pub/sub model and Enhanced query performance with utilization of indexes, partitioning, and materialized views.
- **Retail Store Data Modeling and Analysis:** Responsible for implementing a star schema data warehousing flow. Utilized ETL tool to develop efficient ETL pipelines, create data marts, and perform analysis.
- **University Database Management System:** Developed a database management system for educational institutions. Created a DBMS Simulator using Bash scripting to execute DDL and DML functionalities.
- **Retail Customer Segmentation and Analysis:** Applied exploratory data analysis (EDA) techniques, including window functions and pivoting, alongside analytical SQL, to analyze customer purchase behavior. Constructed a customer segmentation model utilizing RFM technique with Analytical SQL, Leveraged views and materialized views to streamline repetitive queries, address business,inquiries, and facilitate reporting.
- **Employees Attrition Analysis:** Created dashboards to analyze employee attrition factors and Compiled a detailed report with findings.

Data Engineering:

- **COVID-19 Data Pipeline:** Built an automated pipeline for data ingestion and processing using HDFS, Hive, and Oozie, with reports visualized in Power BI.
  Tools: Cloudera HUE, HDFS, Hive, Oozie, Power BI.

Intelligent Automation Projects (UiPath):

- **ACME Validation Bot:** Automated data extraction and client account validation on the ACME website and desktop app, with updates based on results.
- **IMDb Movie & TV Show Finder Bot:** Developed a bot for extracting and verifying client data via the ACME site and desktop app.
- **RPA Challenge (Form):** Created a bot to download, extract, and populate forms from Excel data.

Business Analysis:

- **SRS for Online Bidding System:** Developed use cases, data dictionary, state charts, and diagrams for system requirements.

Web Development:

- **Student Form Web Page:** Dynamic form to add and display students using JSON for data storage.
  Tools: HTML, CSS, JavaScript, Node.js.

- **Video Player Web Page:** Video player with a student data table.
  Tools: *HTML, CSS, JSON, JavaScript, Node.js.*
- **Restaurant Website:** Home page showcasing best-selling products with cart links.
  Tools: *HTML, CSS.*
- **E-Commerce Amazon Website:** Product page with user login, admin functions, and shopping cart.
  Tools: *HTML, CSS, Bootstrap, Angular, TypeScript, Node.js.*

Certifications

- Microsoft Certified: Power BI Data Analyst Associate, jun. 2025
- UiPath Automation Developer Professional – UiPath, Sep. 2024
- UiPath Automation Developer Associate – UiPath, Sep. 2024
- UiPath Automation Explorer – UiPath, Aug. 2024
- Fabric Analytics Engineer Associate - Microsoft Azure Cloud, May. 2024
- Alx Acie Program – Alx, May. 2024
- Professional Data Engineer - Google Cloud Platform, May. 2024
- McKinsey Forward Program – McKinsey, May. 2024
- Essentials in Data Analysis – Microsoft, Feb. 2024
- Data Engineering Masterclass – Sprints, Apr. 2024

TECHNICAL Skills

Programming Concepts: Object-oriented programming (OOP) principles, data structures, and SOLID principles for writing maintainable, scalable, and efficient code.

Programming Languages: .NET framework, C#, Python, and Scala. Solid understanding of programming paradigms and clean code principles.

Web Development: Experienced in front-end and back-end web development using HTML, CSS, JavaScript, TypeScript, Angular, Node.js, and Express.js. Adept at building dynamic, responsive web applications and RESTful APIs.

Database Management: SQL for database querying, management, and optimization. Familiar with SAP database systems for enterprise resource management and business analytics.

Big Data Tools: Hands-on Apache Hadoop for distributed storage and processing, Apache Spark for large-scale data processing, Spark Streaming for real-time data processing, Apache Kafka for distributed event streaming, and Apache Hive for data warehousing.

Data Warehousing & Analytics: data warehousing, dimensional modeling, building and managing data lakes, and data Lake House architecture for scalable data management solutions.

Software Tools & Platforms: Skilled in MS Office Suite, Odoo for enterprise management, and SAP as a user for business processes and analytics.

INTERPERSONAL Skills

- Constantly seek to broaden professional horizons.
- Develops and maintains two-way communications
- Utilize a variety of analytical techniques to solve problems.
- Keep alert to new learning opportunities.
- Excel in developing innovative and creative solutions.

LANGUAGE

- **Arabic**: Native

- **English**: B1

Extracurricular Experience

IEEE Egypt Committee Member
Aug. 2020 - Dec. 2021

AIESEC Egypt OGV TL Member
Aug. 2019 - Dec. 2021

Enactus Egypt PR Member
Aug. 2018 - Dec. 2020