Muhammad Al-Ashmawy

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Education 🎓

Udacity ↗
Data Engineering Nanodegree
Nov 2022

Modern Academy Maadi ↗
Bachelor's in Computer Engineering
June 2022

Udacity ↗
Advanced Data Analysis Nanodegree
Aug 2021

Technical Skill-set ⚙

- Apache Airflow
- Google Cloud Platform (GCP)
- AWS
- Apache Cassandra
- MongoDB
- Docker
- Linux
- MySQL
- Talend
- Power BI
- RestAPI
- Python

Languages

Arabic	Mother Tongue
English	C1 Level

Profile Summary

A proactive data-driven engineer, and a demonstrated teacher that can:

- Build robust pipelines,
- Choose the suitable Data Architecture for your business,
- Write SQL queries that answer business questions,
- Debug deep data-related bugs,
- Build Scalable, Maintainable, and Reliable Data Systems,
- Build big data solutions

Using a diverse technology stack that is best for your business needs.

Most Recent Coursework ✹

- Meta Database Engineer Professional Certificate
  Coursera - Jan 2024

- Data Wrangling with MongoDB
  Udacity - Nov 2022

- Big Data Specialization
  Courera - Jul 2022

- Google Data Analytics Professional Certificate
  Coursera - Jun 2022

- Fundamentals of Red Hat Enterprise Linux
  Coursera - Mar 2022

Experience

Smart Telecom ↗   Feb 2024 – Present
Data Engineer · Full-time   Egypt · Remote

Achieved:
- Achievements are in the making for this challenge...

My role includes:
- Building data solutions,
- Building data pipelines,
- and Building data dashboards for CRM systems designed for SMEs

Udacity ↗   Oct 2022 - Jan 2023
Session Lead · Part-time   Egypt · Remote

Achieved:
- 4.9 out of 5 average student rating for a total of 100 ratings
- 97% Nanodegree program graduation rate

My role included:
- Mentoring students through their Nanodegree projects.
- Simplifying complex technical concepts and provide reliable external resources for students.
- Designing fun activities to make the learning journey for students fun and supportive.

British Council ↗   Mar 2021- Sep 2022
Exams Invigilator · Part-time   Cairo · Egypt

Achieved:
- Increased student satisfaction rates

My role included:
- Supervising exams held by the British Council to insure smooth, safe, and a stress-free environment.

LXT AI. ↗   Jan 2020 – Mar 2021
Data Annotator · Freelance   Egypt · Remote

Learned:
- Data Annotation
- Working on a task basis

Most Proud Projects

Bookstore MongoDB Database ↗
Associated with Professional Development

Project Objectives:
- Design a Bookstore Back-end database with MongoDB
- Create a REST API to interact with the database

Sparkify Data Pipeline ↗
Associated with Udacity

Built a Pipeline with airflow that:
- Creates the data warehouse tables in a Redshift cluster.
- Then loads JSON data into 2 staging tables.
- Then moves the data from the 2 staging tables into 1 fact table and 4 dimension tables.
- Then a data quality check is performed on the data to check if there is a row with a null userId field.

Sparkify Data Lake ↗
Associated with Udacity

Project Objectives:
- Load data from an S3 Bucket into spark,
- Write database tables into HDFS.

Sparkify Data Warehouse ↗
Associated with Udacity

Project Objectives:
- Moving Database to the cloud for scalability and performance,
- Learning Amazon Redshift architecture,
- Learning how to load data into and from an S3 bucket.

Data Wrangling With MongoDB ↗
Associated with Udacity

- Built a MongoDB document from XML Open Street Map (OSM) data,
- Changed encoding of CSV data wich lead to reduction in document size from 53 MB to 27.36 KB.

All is from Allah (SWT)