

# MOHAMED ABDELSALAM

Mid-Sr Big Data Engineer

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## Summary

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Passionate and results-driven Business Intelligence or Data Engineer with a solid foundation in Business Information Technology. Experienced in designing and deploying robust data warehouses, conducting advanced data analysis, and developing interactive visualizations using Power BI and Tableau. Skilled in database management, ETL processes, and data modeling. Proven track record of delivering high-quality solutions to complex problems. Strong communicator with excellent analytical and problem-solving skills. Committed to continuous learning and staying updated with the latest technologies in the field. **Have more 3 Years of experience in technology field.**

## Education

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- (2020-2024) – **Canadian International Collage (CIC)**, New Cairo:
  - Bachelor's degree in Business Information Technology (IT)

## Experience

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- **Data Specialist Instructor** - Full Time (06/2024)  
ISchool • Remote
- **Data Analysis** – Full Time (09/2023: 06/2024)  
Mahmoud Elhosary Company • Employed
- **DB Administrator (DBA)** – Full time (08/2023: 09/2023)  
Egyptian Ministry of Military Production - Internship
- **Data Mining** – Part time (10/2022: 11/2022)  
Egyptian Space Agency • Internship
- **Front-End Developer** – Part time (07/2022: 10/2022)  
Elite-X • Self-employed
- **ERP System Management** - Full time (02/2020: 05/2022)  
Mahmoud Elhosary Company • Employed

## Projects

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- **Big Data Analysis Using OLAP Cube:**
  - Designed and implemented a physical data model for Amazon data warehouse, using a star schema design, using Microsoft SQL Server.
  - Developed ETL processes to extract data from source systems, transform it to fit the data model, and load it into the data warehouse, using Microsoft Integration Services (SSIS).
  - And Creating a Multidimensions Cube using Microsoft Analysis Services (SSAS) to create a lot of measures to Make analysis from this Data and connect that With Power Bi to Create Dashboard.
- **Analysis 1B Record of Data with OLAP**
- **Scraping Data from Amazon. India Website:**
  - Create Script Code python with Beautiful Soup, Request.
  - Select pages links to scraping.
  - Create flat file and inside the data into file.
- **BI Projects:**
  - Made a Power BI dashboard with data transformation and visualization using Alibaba Data to Create dataset from Kaggle.
  - Created charts to show: Bar chart of projects, backers, and goals, Pie chart of projects by state, Line plot of projects by year, Bar chart of projects by categories, Map of projects by country.
- **Snake game in Python:**
  - showcasing proficiency in game development and algorithmic thinking. This project involved designing the game's mechanics, implementing user controls, and optimizing game performance. Demonstrates a blend of programming skills and creative problem-solving in a recreational context.
- **Simple local Watch:**
  - Developed a basic local watch application using Python. This project enabled real-time display of local time and date on the user's machine. Implemented with Python's datetime module, it provided an easy-to-use interface to check the current time without requiring an internet connection. This project honed my skills in Python programming and understanding of datetime manipulation.

## Skills

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- **Concepts:** ETL, OLTP, OLAP, Data Warehouse, Data Modelling, Data Visualization, OOP, DBA, Web Scraping.

- **Databases:** SQL, NoSQL, SQL Tuning.
- **Databases Tools:** Microsoft SQL Server, MySQL, Oracle, PhpMyAdmin, Microsoft Azure.
- **Processing:** Data Modules, Clean Data, Aggregate Data, Joins Data, Cases of Data.
- **Big Data Processing Tools:** Hadoop, PySpark, Microsoft Azure, SQL Server Management Server, SSIS, SSAS, SSRS.
- **Programming Language:** Python, C++, Js, Java.
- **Web Language:** HTML5, CSS, Js.
- **BI Tools:** Power BI, Tableau.

## Certificates & License

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- **Microsoft:** Microsoft Data Analysis Associate (02/2024)
- **365 Data Science:** Building Business Report with Power Bi, Data Analysis with Chat-GPT (11/2023)
- **Ministry of Military Production (ISO 9001):** Information Technology and DBA (08/2023)
- **Simple Learn:** Data Science – ML (03/2023)
- **ITI:** Deep Learning (11/2022).
- **National Authority for Remote Sensing and Space Science (NARSS):** Data Mining for space Apps (10/2022).
- **ITI:** Python, Database's fundamentals (09/2022), (09/2022).
- **LinkedIn:** The Non-Technical skills of Effective Data Scientists (09/2022)
- **Union of Engineers:** PHP (04/2022)
- **CIC:** Front-End (HTML – CSS), CCNA, Machine learning, Problem Solving, Decision Making. (04/2021)

- **CIC:** Communication Skills, Team lead, Teamwork. (12/2020)

## Personal Skills

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- Presentation and Communication Skills.
- Analytical thinking.
- Self-learning.
- Problem Solving.
- Creativity & Logical Thinking.
- Team Lead.

## Languages

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- **Arabic** (Native)
- **English** (Professional – B2)
- **Germany** (Professional Proficiency – A1)