

KHALID ABDELATY

AWS Certified Data Engineer

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SUMMARY

AWS Certified Data Engineer and AWS Community Builder with hands-on experience designing and deploying ETL/ELT pipelines, data warehousing solutions, and cloud-native architectures on AWS and Azure. Proficient in Python, SQL, Apache Spark, and MLOps tooling including MLflow and Hugging Face. Demonstrated ability to reduce pipeline error rates by 40%, improve query performance by 50%, and build automated data quality checks across production workflows. Technical author reaching 50,000+ global readers on data engineering, AI, and cloud platforms. Regional community leader scaling developer ecosystems across MENA. Computer Science graduate, Tanta University, 2026.

TECHNICAL SKILLS

Cloud Platforms: AWS (S3, Glue, Redshift, Athena, Lambda, CloudWatch), Azure (Data Factory, SQL Database, Databricks, Synapse Analytics)

Programming: Python, SQL, JavaScript, C++, PySpark

Data Engineering: ETL/ELT Pipelines, Data Warehousing, Data Modeling, Dimensional Modeling, Apache Spark, Delta Lake, Change Data Capture, Data Quality, Pipeline Orchestration

ML & MLOps: Scikit-learn, Pandas, NumPy, MLflow, Hugging Face, Feature Engineering, Model Deployment

Databases: PostgreSQL, SQL Server, Redshift – schema design, indexing, query optimization, OLTP vs OLAP

Tools: Git, Docker, Power BI, Tableau, Metabase, Jupyter Notebook, Airflow (conceptual), dbt (conceptual)

WORK EXPERIENCE

Independent Technical Author

Remote

Data Engineering & AI Content Writer (Freelance)

Feb 2025 – Present

- Published 40+ technical articles on ETL pipelines, data engineering, SQL, Python, and cloud platforms for a global audience of 50,000+ readers across 50+ countries
- Covered data pipeline orchestration, Change Data Capture, Delta Lake, MLOps, and cloud data architecture through structured peer review cycles

Information Technology Institute (ITI)

Hybrid

Business Intelligence Trainee

Jun 2025 – Sep 2025

- Completed 120-hour BI program covering Data Warehousing, SQL Server, SSIS, Power BI, and Tableau; applied star schema dimensional modeling across real-world capstone projects
- Built end-to-end reporting pipelines transforming raw operational data into executive dashboards for business decision-making

Digital Egypt Pioneers Initiative (DEPI)

Remote

Huawei Big Data Engineer Intern

Jun 2025 – Oct 2025

- Trained in distributed data processing, data mining, and large-scale pipeline architecture using Huawei cloud infrastructure through HCIA/HCIP Big Data certification tracks

Digital Egypt Pioneers Initiative (DEPI)

Hybrid

Microsoft Data Engineer Intern

Jun 2024 – Dec 2024

- Designed and deployed ELT pipelines using Azure Data Factory ingesting transactional data from multiple sources; implemented automated data quality checks reducing pipeline error rate by 40%
- Optimized SQL queries and schema design improving query performance by 50%; applied star schema dimensional modeling for analytical workloads
- Built MLOps workflows using MLflow for experiment tracking and model versioning; deployed models via Hugging Face in production-grade pipelines
- Collaborated within Agile/Scrum teams across sprint planning, standups, and retrospectives; delivered all milestones on schedule

COMMUNITY LEADERSHIP

Cursor

Remote

Regional Leader – North Africa & Middle East

May 2026 – Present

- Selected by invitation to lead Cursor’s MENA Regional Leaders Program; drive partnership initiatives, UGC content creation, and ecosystem outreach to universities, bootcamps, and developer communities
- Review Ambassador applications, mentor community leaders, and surface product feedback via monthly syncs with Cursor’s core team

DataCamp

Remote

Egypt Community Lead & Classroom Ambassador

Jun 2025 – Present

- Lead a 6,000+ member data science community; secured ITI institutional partnership granting 1,400 trainees free platform access

AWS Community

Remote

AWS Community Builder – Data Category

Feb 2025 – Mar 2026

- Published technical content on AWS data services; hosted virtual sessions on cloud architecture and data engineering best practices

Microsoft Student Club – Tanta University

Tanta, Egypt

President & Beta Microsoft Student Ambassador

Jan 2024 – Jul 2025

- Led club delivering Azure training, technical workshops, and hackathons in collaboration with Microsoft representatives

PROJECTS

Mini Resilient Data Platform | *Python, PostgreSQL, Docker, Metabase, ETL*

Jul 2025

- Architected end-to-end analytics platform: automated ELT pipeline ingesting 1,200+ transaction events with data quality validation, Metabase BI layer tracking \$36.1K revenue, 1,119 users, and 18.92% conversion rate

News Intelligence Pipeline | *Python, NLP, Streamlit, Docker, REST APIs*

Jul 2024

- Built real-time ingestion pipeline processing 50+ articles/second from 60,000+ sources; retry logic and error handling achieved 95%+ reliability; interactive Plotly dashboard for sentiment tracking

End-to-End Data Engineering Pipeline | *Python, SQL, Azure Data Factory*

Jul 2024

- Scalable ELT pipeline processing 1M+ daily records; automated data quality checks reduced errors by 40%, query optimization improved performance by 50%

EDUCATION

Tanta University

Tanta, Egypt

Bachelor of Science in Computer Science; GPA: 3.5/5.0

Aug 2022 – Jul 2026

CERTIFICATIONS

AWS Certified Data Engineer – Associate | Score: 831/1000 | Apr 2025

DataCamp Certified Data Engineer | Jan 2025

Microsoft Certified: Azure Data Fundamentals | Score: 895/1000 | Sep 2024

GitHub Foundations Certification | Score: 95% | 2024