

Malik AlNajjar

Data Engineer

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EDUCATION

B.Sc. Software Engineering | GPA: 4.96/5.0

Expected June 2026 | UBT, Jeddah, Saudi Arabia

ACM Vice Chair & Treasurer | GDG Outreach Lead | KAUST Advanced AI Specialization (Jan-Feb 2025): ML, Deep Learning, Python

PROFESSIONAL SUMMARY

Detail-oriented Data Engineer specialising in ETL/ELT pipeline architecture, cloud data infrastructure, and large-scale ingestion on AWS. Designed and deployed data systems spanning edge IoT sensors to cloud analytics. Collaborative problem-solver who communicates complex technical solutions clearly to cross-functional teams. Graduating June 2026, GPA 4.96/5.0; holds AWS DEA-C01, SAA-C03, DAMA CDMP, CAPM, and CompTIA Data+; PL-300 scheduled May 2026.

TECHNICAL SKILLS

Cloud & Infra: AWS S3, Glue, Athena, Lambda, DMS, RDS, QuickSight, IAM, CloudWatch, ECS Fargate

Pipelines: Apache Kafka, dbt, Airflow (fundamentals), Great Expectations, ETL/ELT, data ingestion, batch & stream processing

Languages & DB: Python (Pandas, NumPy, Scikit-learn, FastAPI), SQL, PostgreSQL, MySQL, Redis, Apache Iceberg

Other: Docker, Git, MQTT, ROS, REST APIs, Linux/Bash, Agile/Scrum, Data Governance, GASTAT datasets

Soft Skills: Communication, Problem-solving, Critical thinking, Cross-functional collaboration, Attention to detail, Leadership, Adaptability, Data storytelling, Teamwork, Time management

PROJECTS & EXPERIENCE

Sadeed - Data Quality & Validation Platform | GASTAT Hackathon | Finalist

2025

[github.com/malikaalnajjar/Sadeed_GASat_Hackathon](#)

FastAPI · Redis · Great Expectations · One-Class SVM · AWS ECS Fargate · Local LLM · Browser Extension

- Architected 3-layer ETL validation (schema checks, statistical profiling, ML anomaly detection via One-Class SVM) across 3-5 GASTAT government datasets with zero labelled training examples.
- Deployed on AWS ECS Fargate with Redis caching (60%+ latency reduction); automated Arabic data quality reports via local LLM with zero data leaving the government network. Reached finals out of nationwide competing teams.

AUJ / Aouj - IoT Retail Data Pipeline | Senior Capstone Project

2025-2026

ESP32 · MQTT · PostgreSQL · FastAPI · Prophet · WebSocket · React

- Engineered ETL ingestion pipeline from 3 ESP32 nodes through MQTT into PostgreSQL with WebSocket API layer; designed complete 5-stage data flow: edge to broker to DB to API to dashboard.
- Built Prophet forecasting model on 6-month dataset; optimised PostgreSQL schema with 4+ indexes for low-latency real-time dashboard queries.

Tayseer - Autonomous Wheelchair Edge Pipeline | AVITHON 2025 (GACA)

Top 15 Nationwide / 500+ Teams

NVIDIA Jetson Nano · ROS · LiDAR · Intel RealSense · TLS 1.3 · AES-256

- Built 2-source sensor fusion pipeline (LiDAR + depth camera) on Jetson Nano; designed TLS 1.3/AES-256 security architecture and 5-phase national deployment roadmap.
- Ranked Top 15 nationwide out of 500+ teams at AVITHON 2025 by GACA; conducted field research at KAIA Jeddah Airport.

Masra - Smart Adventure Tourism Platform | Aseer Tabtaker Hackathon 2025

2025

AI · IoT · Mobile · Cloud · Vision 2030

- Designed cloud data architecture for real-time IoT sensor ingestion and AI-powered safety alerts; aligned with Saudi Vision 2030 and presented to regional government stakeholders.

CERTIFICATIONS

PMI CAPM Project Management (Jan 2026) - project lifecycle, risk management, stakeholder communication, Agile | **PL-300 Power BI Data Analyst (Scheduled May 2026)** - DAX, Power Query, data modelling, RLS, Power BI Service

AWS DEA-C01 Data Engineer Associate (Mar 2026) - data ingestion, transformation, orchestration; Glue, Athena, Kinesis, Lake Formation | **AWS SAA-C03 Solutions Architect (Feb 2026)** - resilient, cost-optimised cloud architectures on AWS

AWS CLF-C02 Cloud Practitioner (Nov 2025) - AWS core services, cloud concepts, security, pricing | **DAMA CDMP Data Management Professional (Jan 2026)** - data governance, data quality, master data management

CompTIA Data+ (2024) - data concepts, mining, analysis, visualisation, reporting | **IBM Data Engineering Professional Certificate (Dec 2025)** - Python, SQL, Spark, ETL pipelines, data warehousing

Google Data Analytics Certificate (Dec 2025) - data cleaning, analysis, R, Tableau, six-phase analysis framework | **DataCamp Associate Data Engineer in SQL (Jun 2025)** - schema design, query optimisation, ETL, database administration

Google Project Management Certificate (Jan 2026) - Agile/Scrum, project planning, stakeholder management | **McKinsey Forward Program (Jul 2025)** - problem-solving, data-driven decision making, professional skills

AWARDS, LEADERSHIP & ACTIVITIES

2nd Place - Project Management Championship by Beyond | UBT 2025 | Brand Protection Member, AFC Asian Cup U-23 (Jan 2026-Present)

GDG Outreach Lead: organised cloud & data workshops for 100+ students, 40%+ attendance growth | **ACM Vice Chair & Treasurer:** managed SAR 5,000 budget, delivered 3-5 technical events/cycle (30+ participants each)