

Malik AlNajjar

Software Engineer | Data Engineer | Data Analyst

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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

Final-year Software Engineering student (GPA 4.96/5.0) with hands-on experience building ETL/ELT pipelines, AWS cloud infrastructure, RESTful APIs, and IoT data ingestion systems. Holds AWS DEA-C01, SAA-C03, DAMA CDMP, CompTIA Data+, and CAPM; PL-300 scheduled April 2026. Bilingual (Arabic/English), Agile team contributor, and technical community leader. Seeking a Co-op placement to support digital government infrastructure aligned with Saudi Vision 2030.

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript, Bash/Linux, R

Backend & APIs: FastAPI, REST APIs, WebSocket, MQTT, Docker, Git

Data Engineering: ETL/ELT, Apache Kafka, dbt, Great Expectations, batch & stream processing

Cloud (AWS): S3, Glue, Athena, Lambda, RDS, DMS, ECS Fargate, IAM, CloudWatch, QuickSight

Databases & ML: PostgreSQL, MySQL, Redis, Apache Iceberg, Pandas, NumPy, Scikit-learn, Prophet, One-Class SVM

BI & Reporting: Power BI (DAX, Power Query, RLS), Tableau, Excel (Advanced), Matplotlib

Other: IoT (ESP32), ROS, NVIDIA Jetson Nano, 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

AUJ / Aouj - Smart Retail Shelf System | Senior Capstone Project

2025-2026

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

- Engineered full-stack ETL pipeline from 3 ESP32 sensor nodes through MQTT into PostgreSQL (8-table schema, 4+ indexes); exposed 30 REST endpoints via FastAPI with real-time WebSocket layer.
- Built Power BI dashboard (5+ KPIs) for non-technical stakeholders; delivered demand forecasting with Prophet on 6-month dataset to automate restocking decisions.

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

2025

github.com/malikaalnajjar/Sadeed_GAStat_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.

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 for real-time obstacle detection; designed TLS 1.3/AES-256 security architecture. Field research at KAIA Jeddah Airport. Ranked Top 15 nationwide out of 500+ teams at AVITHON 2025 by GACA.

CERTIFICATIONS

PMI CAPM Project Management (Jan 2026) - project lifecycle, risk management, stakeholder communication, Agile

PL-300 Power BI Data Analyst (Scheduled April 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

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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)