Abdallah Aldaour

Data Engineer

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SUMMARY

Data Engineer with 3+ years of experience building end-to-end automated data pipelines, from raw data ingestion to analytics, reporting, and dashboard visualization. Skilled in Python, SQL, Apache Airflow, ETL design, and cloud platforms (AWS, GCP). Strong background in data cleaning, validation, modeling, anomaly detection, and statistical analysis. Experienced in containerization (Docker), CI/CD automation, and building scalable data workflows.

SKILLS & TOOLS

- Python
- Airflow
- Tableau
- SQL
- CI/CD
- Excel
- AWS
- Docker
- Web scraping

PROFESSIONAL EXPERIENCE

Data Engineer | Material Insights   Sep 2022 – Nov 2025

Material Insights is a data-centered company providing high-quality R&D-level materials data through an integrated platform.

- Designed and managed end-to-end ETL pipelines for experimental materials data, orchestrating ingestion of raw CSV files via Python-based desktop applications into a containerized MongoDB database.
- Implemented AWS S3-based data layers: raw bucket as the source of truth, processed bucket for enriched and validated data, and gold bucket in Parquet format for analytics and AI/ML consumption.
- Developed and scheduled ETL workflows using AWS Glue, triggered by data arrival events in S3, performing schema validation, rule-based transformations, enrichment, and normalization.
- Built pipelines to route processed data to internal APIs, automatically determining the correct schema/test mapping and loading results into MongoDB.
- Automated Excel reporting using Xlwings, delivering structured datasets to internal teams.
- Developed interactive Tableau dashboards to visualize material properties, compare test outcomes, and identify correlations, supporting data-driven experiment planning.

Application Engineer | FADI-IMS   Sep 2021 – Aug 2022

FADI-IMS delivers advanced metrology solutions with GOM and ZEISS, serving diverse industries with integrated hardware and software from three global offices.

- Installed and configured advanced metrology systems, including 3D scanning and photogrammetry, across the Gulf region.
- Collaborated with regional stakeholders to assess needs, address challenges, and optimize workflows.
- Designed and delivered customized technical training for long-term system usability.
- Provided after-sales support, troubleshooting, and performance optimization for customers across diverse industrial sectors in the Gulf.

PROJECTS & ACHIEVEMENTS

AZCareer - MENA Job Market Data Pipeline & Analytics

- Built an automated job-market data pipeline scraping LinkedIn, Bayt, and Naukrigulf, with scrapers containerized using Docker and deployed via CI/CD (GitHub Actions).
- Orchestrated the full workflow using Apache Airflow, hosted on servers, to schedule, monitor, and control the end-to-end ETL process.
- Implemented AWS S3-based data layers: raw bucket for ingested data, processed bucket for LLM-based enrichment and embedding extraction, and gold/parquet layer for normalized, analytics-ready data.
- Applied LLM models to enrich data (skills, certifications, seniority, embeddings), followed by normalization to reduce variation in model outputs.
- Loaded structured datasets into a containerized PostgreSQL database hosted on a server, designed with star schema modeling for analytics and semantic search using pgvector.

TalkTika - AI-Powered Language Learning Platform

- Led the early-stage development of a language-learning platform focused on native-like speech patterns using AI.
- Contributed to product concept, feature design, user experience, and early-stage prototyping.
- Demonstrated product thinking, persistence, and technical leadership.

Self-Assembling / Reconfigurable Robot – U.S. Patent Pending

- Designed a modular robotic system capable of self-assembly with four degrees of freedom.
- Participated in mechanical design (SolidWorks), simulation (Ansys), and embedded system integration.
- Advanced through multiple stages of patent registration in the U.S.

CERTIFICATIONS

- Google Data Analytics Professional Certificate (Apr 2025)
- Data Warehouse Fundamentals — IBM (Aug 2024)
- Queen Rania National Entrepreneurship Bootcamp (Feb–Jun 2024)
- StartMashreq Incubation Program (Oct 2023 – Feb 2024)
- Complete Public Speaking Masterclass (Dec 2021)

EDUCATION

Bachelor of Science – Mechanical Engineering   University of Jordan | 2016 – 2021

LANGUAGES

- Arabic (Native)
- English (Fluent)

VOLUNTEERING

- Supervisor, Safar Youth (2018 – Present)
- Member, Mech Family Committee (2016 – 2020)