

Data & AI Engineer working at the intersection of data, system design, DevOps, and AI. Builds platforms, agents, and tools, from data solutions to AI solutions. I turn initiatives into living production systems.

Skills

- Programming
 - Data Architecture & Modeling
 - ETL & Data Pipelines
- System Design
 - DevOps & Cloud
 - AI Engineering

Experience

- Data Engineer & AI Engineer**, Ministry of Defence — Executive Affairs, Riyadh

Jun 2025 – Present

 - Architected and shipped **Mirsad**, a two-wing intelligence platform combining AI and BI, from initial design to production deployment.
 - Built ingestion pipelines over structured and unstructured sources feeding AI and BI layers, cutting time-to-answer from days to seconds.
 - Owned model serving, retrieval, evaluation, and guardrails; presented to executive leadership.
 - Implemented **open-dmo** across the Ministry's federated Data Management Offices (DMOs).
- Data Engineer**, Decision Support Center (DSC) — Royal Court, Riyadh

Feb 2024 – Jun 2025

 - Architected and owned end to end a self-service analytics platform, giving researchers governed, independent access to authorized data and removing manual data-request bottlenecks.
 - Modeled a Medallion (bronze/silver/gold) Kimball warehouse with data marts and API integrations as the standardized analytics layer.
- Data Engineer**, Nortal

Jan 2023 – Feb 2024

 - **NortalTark**: Engineered a multi-LLM enterprise RAG platform for government entities across MEA; led the migration to Kubernetes and a data-sovereign cloud deployment.
 - **Saudi Census**: Built and owned the ETL backbone powering all 8 warehouse themes for Saudi Arabia's 32M-person national census, feeding the live public census portal.
- Data Engineer**, Ministry of Industry and Mineral Resources

Apr 2021 – Dec 2022

 - Integrated 25+ government data sources into a unified 360-degree view of every factory in Saudi Arabia, building the ODS layer and data-quality rules adopted as the single source of truth for downstream teams.

Projects

- **open-dmo**: An AI system that runs a government Data Management Office (DMO) as software. Pairs every role with an expert AI agent that knows the national data-governance frameworks and drafts the office's deliverables. Agents coordinate on a shared task board through defined workflows, hand off work across departments, and stay aware of the whole office through a shared activity log, with humans leading and signing off at every step. Terminal and desktop app.
- **syaq**: A Saudi context layer for any AI model, spanning the country's state and politics, decisions and law, economy, demographics, geography, history, culture, identity, literature, and religion. Every claim carries its official source.

Education & Certifications

- B.S. Management Information Systems**, Minnesota State University, Mankato — Aug 2020
- Certified Data Management Professional (CDMP)**, DAMA International