

CURRICULUM VITAE

PERSONAL INFORMATION

Name : Hisham Hussein Mohammad Alrashdan

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PROFESSIONAL SUMMARY

Accomplished Data Architect and Technology Strategy Manager with over 20 years of experience bridging the gap between complex data engineering and strategic business decision-making. Deep expertise in Modern BI (Power BI, Apache Superset), Healthcare Interoperability (HL7, FHIR), and Generative AI integration. Proven track record of architecting centralized data warehouses, leading remote technical teams, and modernizing legacy infrastructure for diverse organizations ranging from healthcare providers to academic institutions.

PROFESSIONAL EXPERIENCE

Technology Strategy Manager & Data Architect Consultant LuminousKey | Jordan
February 2022 – January 2026

Leading technical strategy for modern data infrastructure, specializing in BI architecture and Generative AI integration.

- **Generative AI & RAG:** Built Retrieval-Augmented Generation (RAG) applications using LLMs, PandasAI, and Vanna, enabling natural language querying of business data.
- **Modern BI Architecture:** Developed high-performance dashboards using Power BI and Apache Superset (Python) for complex visualization.
- **Data Warehousing:** Architected centralized pipelines consolidating data from diverse operational systems including OpenEMR, Moodle, and osTicket.
- **Cloud & Fabric:** Managed Azure Cloud administration and implemented Microsoft Fabric solutions to modernize data workflows.
- **Interface Engineering:** Directed complex API integrations and data interface engineering to support strategic decision-making.

Technical Manager & Lead Data Architect (Remote) Memits Solutions | UAE

(Hybrid/Remote) May 2015 – January 2022

Operated as the Technical Lead and Interface Engineer for a network of Dental Practice Management Systems, simultaneously managing the technical team and architecting hands-on data solutions.

- **Interoperability & Interface Engineering:** Engineered seamless integration channels using NextGen Connect (Mirth Connect), utilizing HL7 v2 and FHIR standards to synchronize clinical data across distributed systems.
- **Data Architecture:** Built centralized data warehouses and ETL pipelines for Dentimax, OpenDental, and Titanium, consolidating disparate data sources for unified analysis.

- **Modern BI & Analytics:** Modernized the reporting infrastructure by developing interactive dashboards using **Power BI** and **Apache Superset (Python)**, replacing legacy static reporting with dynamic visual insights.
- **Reporting Infrastructure:** Developed robust financial and operational reports using Crystal Reports, SSRS, and Delphi over complex databases (SQL Server, PostgreSQL, MySQL, DBISAM).
- **Data Integrity:** Led database migration and cleansing projects to ensure patient record accuracy and system reliability.

Senior Technical Specialist (Data & Specialized Labs) Yarmouk University | Jordan June 2000 – 2021

Managed diverse technical environments and provided specialized data support across four critical research units.

- **GIS Lab (Geography Dept):** Supported Geographic Information Systems (GIS) infrastructure, assisting with spatial data processing and lab hardware maintenance.
- **Statistics Unit:** Provided technical support for statistical analysis workflows and data processing software for research projects.
- **Speech & Hearing Center:** Served as a Speech Analyst, utilizing specialized acoustic analysis tools (CSL, Praat) to capture and process clinical audio data.
- **Language Center:** Managed the computer language labs, overseeing the deployment of multimedia learning software and maintaining network performance for student users.

EDUCATION

Master of Science in Computer Science Amman Arab University for Graduate Studies | Amman, Jordan *Graduated: 2008 | Rating: Excellent*

- **Thesis:** "Improving the Effectiveness of the Color Coherence Vector Method" (Visual Information Retrieval).

Bachelor of Science in Computer Science Mu'tah University | Al Kerak, Jordan *Graduated: 1999 | Rating: Good*

TECHNICAL SKILLS

- **Data Engineering & Cloud:** Microsoft Fabric, Azure Cloud Admin, ETL Pipelines, Data Warehousing, SQL Server, PostgreSQL, MySQL.
- **Business Intelligence (BI):** Power BI (DAX, Modeling), Apache Superset, Crystal Reports, SSRS.
- **AI & Data Science:** Generative AI, RAG Applications, LLMs, Python (Pandas, PandasAI, Vanna).
- **Healthcare Interoperability:** HL7 v2, FHIR, NextGen Connect (Mirth Connect), Dentimax, OpenDental.
- **Programming Languages:** Python, Java, C#, SQL.

PUBLICATIONS

- **Al-Hamami, A., & Al-Rashdan, H.** (2010). "Improving the effectiveness of the color coherence vector." *The International Arab Journal of Information Technology*, July 2010.