

Hani Attar

🏢 Lead Data Engineer · MITRE

📍 Falls Church, VA

Professional summary

Data Manager / Data Modeler / Data Engineer

Senior data management professional with more than 15 years of experience in large-scale projects for major public sector customers. Accomplished data scientist with track record of solving complex business problems and diagnosing production issues with speed and efficiency. Certified PMP with experience in entire project lifecycle. Expertise in designing complex data models with focus on simplicity and scalability, utilizing most powerful modeling tools. Advocate for automation to streamline data management, transformation, and analytics. Influential communicator proven in establishing cross-functional and distributed collaborations. MBI FAA | MBI IRS | Interim HHS clearance.

📍 Willing to relocate to anywhere

🛂 Authorized to work in the US for any employer

Experience

Lead Data Engineer • MITRE

January 2019 – Present • 7 yr 7 mo

Direct implementation of data management projects of national importance and provide consultancy services to key government agencies. Manage projects simultaneously liaising with cross-functional groups. Ensure security, availability and reliability of safety-related information and records that require safeguarding and dissemination control.

- Safety Data Catalog/Federal Aviation Agency (FAA): As Data Engineer, supported safety data catalog customization project aiming to improve data availability and data access efficiency. Applied data management best practices to facilitate information needs and data assets use.
 - o Identified and addressed information exchange challenges by analyzing existing data access processes and information needs and designing effective conceptual model and data cataloging process.
 - o Enhanced enterprise safety process, engagement of information users, and data analysis speed and quality by developing detailed documentation to guide data catalog application.
- Microsoft Azure Information Protection (AIP) for Controlled Unclassified Information (CUI) and Electronic Records Management (eRM)/Internal Revenue Service (IRS): As Data Engineer, provided recommendations and expertise for electronic records-archiving architecture project to enable digitalization and ensure discoverability of all documents preserved by National Archives Records Administration.
 - o Guided assessment and selection of eRM solution architecture satisfying requirements for electronic records handling and protection through all stages of information life cycle.
 - o Evaluated suitability of MS AIP tool combined with M365 services to meet project requirements and made recommendations on system configuration and resource allocation.
- Aviation Safety Information Analysis and Sharing (ASIAS 2.0)/ Federal Aviation Agency (FAA): As Data Administrator, supported development of data processing and publishing platform for safety-related information sharing, enabling users to perform integrated queries across multiple databases and search extensive warehouse of safety data .
 - o Proved instrumental in understanding and implementing customer's business logic.
 - o Streamlined transition to next project phase by documenting legacy data processing, defining data workflow criteria, replicating legacy system features, and improving data quality by standardization and harmonization.

Lead Business Intelligence Expert • IBM-GBS

January 2013 – December 2019 • 6 yr 11 mo

Provided expertise to multiple BI report design projects for public sector, large enterprises, and non-profits. Cooperated with stakeholders to understand core business processes and elicit reporting requirements. Crafted complex BI reporting, analysis, and assessments and streamlined existing reports. Reviewed internal processes to identify opportunities for operational efficiency improvement.

- Managed Cognos migration project leading offshore team through report system upgrade, including migration of 60K reports and simplifying usage by reducing report set number by 60%.
- Redesigned report generation process introducing direct database connection to capture data in real time, a major improvement of once-per-month data snapshots offered by legacy system.
- Achieved seamless BI reporting system adoption by end users through ensuring quality user guides and conducting trainings, demonstrations, and collaborative joint application development sessions.

Team Leader and Business Intelligence/Enterprise Data Warehouse (EDW)

Specialist · Deloitte Consulting LLP

January 2009 – December 2013 · 4 yr 11 mo

Led project teams consulting customers from government and public sectors in areas of data analytics and business intelligence. Designed EDW models using ERwin data modeler and Cognos BI reports to facilitate informed business decision-making. Collaborated with customers to collect business requirements and assist with identifying most effective solution.

- Coordinated project for insurance industry customer to create data gathering system and front-end data capture interface while connecting SQL Server database with Cognos BI tool.
- Automated data loading from multiple data sources and transformation into reports and business insights, applying client's aggregation logic and functional requirements.

Senior Consultant · BearingPoint Consulting

May 2006 – May 2009 · 3 yr

Arlington, VA

Supported federal agency business intelligence efforts by developing and enhancing data dashboards using Cognos BI.

- Improved report performance and usability by optimizing database model and adding export to common formats.

Certifications & licenses

Related licenses and certifications come from the candidate's resume and profile.



Secret Clearance

Certifications



PMP

Education

Related education comes from the candidate's resume and profile.



Graduate Certificate in Big Data

George Mason University · City of Fairfax, VA
Through 2015



Master of Science in Software Engineering

George Mason University · City of Fairfax, VA
Through 2009



Bachelor of Science in Computer Science and Mathematics

George Mason University · City of Fairfax, VA
Through 2005



Bachelor of Computer Science



Master's degree

Skills

Related skills come from the candidate's resume and profile.

Data Transformation

IBM Watson

ER/Studio

QlickView

Data Management for Analytics

Apache NiFi

Microsoft Power BI

Agile Development

InfoSphere

Oracle

Analytic Solver Optimization

TIBCO Jaspersoft

PostgreSQL

TOAD

Plus

SQL Server

Simulation for MS Excel Programming: Python, SQL

Business Intelligence

Microsoft Master Data Services (MDS) Key Skills: Data Modeling

MySQL

Data Cataloging

InfoSphere Data Architect

Tableau

Software Development Life Cycle

Netezza

BIMLStudio/BIMLFlex

Data Engineering

R-Studio

DB2

Data Profiling

Project Management

ERwin Data Modeler; Informatica ETL

IBM Cognos Business Intelligence

SQL

PL/SQL

Relational databases

Data modeling

Database documentation

SSIS

Cassandra

Agile

Machine learning

Performance tuning

QlikView

Unit testing

Database views

Dimensional modeling

System troubleshooting

Star schema

Git

Database software proficiency

Largest reduction in data retrieval time achieved through optimization (16-20%)

Docker

Management

Index implementation

Microsoft Word

Azure

SQL

Stored procedures

Microsoft Excel

Data masking implementation

Database clustering

DB2

MariaDB

Business intelligence

Data breach risk reduced by implementing security protocols (26-35%)

Tokenization implementation

Achieving reduction in data retrieval time through optimization

Database architecture experience (11–15 years)

Linux

Microsoft Office

ChatGPT

Database management

GitLab

Microsoft Power Automate

Tableau

Database auditing

Entity-relationship diagrams

Data denormalization

Largest system uptime percentage achieved through database tuning (99.01-99.50%)

Database constraints

Distributed databases

Reducing data breach risk by implementing security protocols

Master data management

Data Architecture Design (Architecture design skills)

System improvement planning

RBAC

Database architecture experience

Improving system uptime through database tuning

Data encryption

Database design

C++

RESTful API

Data normalization

R

Python

Big data

Data Integration (Data management)

IT

Data visualization software proficiency

In-memory caching

MySQL

SharePoint

Data Loss Prevention

Microsoft Outlook

Cloud databases

Database maintenance

Analytics

Largest database managed (1TB-10TB)

SSRS

Improving database performance

Oracle

Database performance improved (31-40%)

Capacity planning

Agile software development

Data quality management

Microsoft SQL Server

Waterfall software development

NiFi

Power BI

Scrum

NoSQL

Database compliance measures

Database size managed

Microsoft PowerPoint

Reducing operational costs through database optimization

PostgreSQL

Database triggers

Sybase

Data integration architecture

BigQuery

R&D Systems

Azure Cosmos DB

UML

Red Hat OpenShift

Microsoft Dynamics

MongoDB

PoC Systems

Operations

Informatica

CI/CD

Version control

Azure SQL Database

Data warehouse

Access control implementation

AWS

Google Cloud Platform

Cloud infrastructure

Largest operational cost reduction achieved through database optimization (26-50%)

Languages

Arabic – Fluent

English – Fluent

Awards

MITRE - Spark Award

September 2020

MITRE - Spark Award

May 2021

MITRE - Spark Award

October 2021

MITRE - Applause Award

May 2022

MITRE - Catalyst Award

July 2022