

Muhammad Nouman Faiz

Data Engineer

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Summary

Results-driven Data Engineer with 3 years of experience in designing and implementing high-performance data pipelines across industries such as Insurance, IoT, Railway System Tracking, Medical, and Finance. Successfully engineered and optimized data workflows, resulting in a 30% reduction in processing time and a 20% improvement in data retrieval efficiency. Expert in developing sustainable pipelines for cleaning, sorting, and storing vast datasets in read-efficient environments like Azure Blob Storage. Proven track record of delivering scalable data solutions that support business-critical operations and drive decision-making, managing datasets with 5+ GB batches and ensuring 99.9% data availability.

Professional Experience

Tkxel Data Engineer

Lahore, Pakistan
June 2024, Present

- **Project: Health Care & Pharmaceutical Company**
 - Led the transition of a multi-billion-dollar client from Azure tech stack (ADF, Databricks, Azure SQL, Power BI) to a unified Microsoft Fabric platform.
 - Implemented a Medallion Architecture on Microsoft Fabric utilizing One Lake, ensuring efficient data processing across multiple layers (Bronze, Silver, Gold).
 - Established a Centralized Data Warehouse as the single source of truth, ensuring data consistency and integrity across the organization.
 - Developed Data Marts for Reporting, improving query performance and reducing refresh times by 20%.
 - Engineered Pipelines for seamless data integration and storage, optimizing the merging of complex datasets.
 - Implemented CI/CD Pipelines and Version Control using Git, ensuring streamlined deployment processes and robust version management.
 - Refined and Optimized Pre-Existing Dataflows by updating Azure Data Factory pipelines and stored procedures with new business logic to support newly introduced client services, ensuring seamless integration and enhanced performance.

Technologies: SQL Server, SSMS, Microsoft Fabric, Blob Storage, Azure Active Directory, Azure Alerts, Azure SQL, Azure DevOps CI / CD, Power BI (Power Query, DAX, Dimension Modeling, Visualization)

TenX Pvt. LTD Data Engineer

Lahore, Pakistan
Jan 2023-June 2024

- **Project: GT Railway (IoT based Train Monitoring)**
 - Conducted Requirement Gathering Sessions with the client to understand source data, business needs, and identify critical KPIs for operational insights.
 - Implemented a Data Warehousing Solution to support Online Analytical Processing (OLAP), ensuring optimized data storage and efficient query performance.
 - Developed a Semantic Layer to facilitate seamless dashboarding and reporting, ensuring data consistency and enhanced accessibility for business users.
 - Engineered Talend Pipelines for ingesting and processing CSV files into the data warehouse, enabling streamlined data integration and management.
 - Created Python Scripts to automate the parsing of TXT/DSN files into CSV format, improving data processing efficiency.
 - Designed and Developed Power BI Dashboards to provide real-time operational insights to directors of the railway company, driving data-driven decision-making.
- **Project: Agrilift (IoT based Farm & Crop Management)**
 - Gathered and analyzed client requirements to ensure the development of highly accurate and tailored reports, addressing specific business needs and enhancing overall data-driven decision-making.
 - Developed and maintained comprehensive reports for monitoring various aspects of farm operations,

including drone flights, crop growth, fertilization processes, and harvest outcomes, providing actionable insights for operational improvements.

- Designed and implemented mechanisms for updating Materialized Query Tables (MQTs) as data marts, streamlining the reporting process and improving the efficiency and performance of data retrieval.
- Installed and configured Apache Superset to create a robust data reporting and visualization environment, enabling dynamic and interactive dashboards for insightful data analysis

- **Project: RM Tool (Internal Resource management tool)**

- Created and deployed Power BI reports to facilitate detailed analysis and tracking of crop harvests and results, enabling stakeholders to make informed decisions based on real-time data.
- Created and implemented dashboards for monitoring resource allocation, project management, and resource utilization, providing a comprehensive view of operational efficiency and project status.
- Designed and developed a data mart specifically for Power BI reports, ensuring structured and optimized data access for effective reporting and analysis.

Technologies: SQL Server, SSMS, Vertica, Azure Databricks, PowerBI, Apache Superset, Apache Airflow, Python, Talend, IBM Cognos, IBM Infosphere DataStage, IBM Infosphere Data Architect

Native Programmers

Data Engineer

Lahore, Pakistan
Aug 2021 - Sep 2022

- Developed and optimized databases for scalable, high-performance applications, enhancing system reliability and reducing query times.
- Worked with both NoSQL and SQL databases, selecting appropriate systems to meet specific project requirements, optimizing data storage, and improving retrieval efficiency.
- Collaborated with backend developers to integrate databases with applications, ensuring seamless data flow, and driving system functionality and performance improvements.
- Tested and validated database queries, procedures, and stored functions, ensuring data integrity and optimizing performance, resulting in more stable and efficient systems.

Technologies: SQL database, NoSQL databases, Google Cloud Services, Firebase, MySQL, PostgreSQL, DialogFlow

Training and Certifications

- Data Engineering with Databricks (**Databricks**)
- Databricks Lakehouse Fundamentals (**Databricks**)
- Informatica Foundation of Data Engineering
- Google's Data Driven Decision making (**Coursera**)

Technical Skills

Programming: SQL, TSQL, Python, JSON, DAX, Spark SQL, M Query

Tools and Technologies: Microsoft Office, SQL Server, SSIS, Azure (Azure Databricks, Azure Data Explorer, Azure Data Factory, Blob Storage, Azure Synapse, Azure SQL), Power BI (Power Query, DAX, Dimension Modeling, Visualization), PySpark Notebook, GitHub, Tableau

Education

Superior University, Lahore

Lahore, Pakistan

BS in Software Engineering

Relevant Coursework: Fundamental of Algorithms, C, C++, Object Oriented programming, Database Management, Artificial Intelligence, Data Structure, Business Process Engineering, Software Requirement Engineering