

## **Nasir Walli Muhammad**

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## **DATA ENGINEERING LEAD | SENIOR CLOUD DATA ENGINEER**

AWS | Azure | Databricks | Data Lakes | Warehousing | ETL

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### **Professional Summary**

Results-driven Senior Cloud Data Engineer and Technical Lead with 8+ years of experience designing and delivering scalable, cloud-based data platforms. Proven expertise in building batch and event-driven data pipelines, data lakes, and warehouse solutions across AWS and Azure environments. Strong background in data modeling, distributed systems, and performance optimization.

Experienced in leading data engineering initiatives, mentoring engineers, reviewing code, enforcing best practices, and collaborating with Analytics, Product, and Business stakeholders to deliver high-impact data solutions. Adept at owning the end-to-end data lifecycle from ingestion to consumption while ensuring data quality, reliability, and scalability.

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### **Leadership & Management Experience**

- Led cross-functional data engineering initiatives for cloud-based analytics platforms.
  - Mentored and guided junior and mid-level data engineers.
  - Conducted code reviews and enforced engineering best practices.
  - Owned end-to-end data lifecycle (ingestion, transformation, modeling, consumption).
  - Collaborated with Product, Analytics, and Business teams to translate requirements into scalable data architectures.
  - Participated in sprint planning, backlog grooming, and Agile/Scrum ceremonies.
  - Contributed to technical hiring and onboarding of data engineers.
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## **Core Competencies**

- Scalable Batch & Event-Driven Data Pipelines
  - Cloud Data Lakes & Warehousing
  - Data Modeling & Dimensional Modeling
  - SQL & Performance Optimization
  - ETL / ELT Architecture
  - Data Quality & Validation Frameworks
  - Architecture Design & Technical Leadership
  - CI/CD & DevOps Collaboration
  - Stakeholder Communication
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## **Professional Experience**

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### **Azure Data Engineer, DBA & Database Developer**

**Medcare MSO — Lahore, Pakistan**

*Apr 2024 – Present*

- Designed scalable batch data pipelines using Azure Data Factory and Databricks.
- Led architecture decisions for Azure-based Data Lake (ADLS Gen2) and Synapse warehouse solutions.
- Developed and optimized complex SQL transformations and stored procedures for healthcare analytics.
- Implemented data quality validation, monitoring, and optimization strategies.
- Administered Azure SQL and production databases ensuring availability, integrity, and performance.
- Guided engineers on performance tuning, indexing strategies, and best practices.
- Collaborated with analytics teams to deliver BI-ready curated datasets.

**Technologies:** Azure Data Factory, Databricks (Spark), Azure SQL, Synapse, ADLS Gen2, T-SQL, Python

**Domain:** Healthcare IT

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### **Senior AWS Cloud Data Engineer / Technical Lead**

**Revcloud — Lahore, Pakistan**

*Jun 2023 – Mar 2024*

- Designed scalable AWS data lake architecture using S3, Glue, Athena, and Lambda.
- Built event-driven ingestion pipelines using EventBridge and Step Functions.
- Developed distributed SQL transformation pipelines using Glue and Athena.
- Implemented data reconciliation, aggregation, and validation logic aligned with business rules.
- Optimized query performance and cloud processing workflows.
- Conducted peer code reviews and enforced development standards.
- Worked in Agile/Scrum environment with CI/CD-driven deployments.

#### **Key Projects:**

##### **Google Ads Integration**

- Developed SQL-based reconciliation and reporting logic using BigQuery.
- Translated business KPIs into scalable data transformations.

##### **Facebook Ads Integration**

- Built automated SQL transformation pipelines and validation checks.

##### **Salesforce Email Events Data**

- Managed structured transformations using AWS Glue and Athena.
- Implemented business-rule-driven aggregation logic.

**Technologies:** AWS Glue, Athena, S3, Lambda, Step Functions, EventBridge, BigQuery, SQL, Python

**Domain:** Real Estate

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## **Data Engineering Lead (Principal Software Engineer)**

**Kavtech Solutions (Pvt) Ltd. — Lahore, Pakistan**

*May 2022 – Jul 2023*

- Led ETL and Data Warehouse architecture initiatives.
- Gathered business requirements and translated them into scalable ELT solutions.
- Designed dimensional models for analytical reporting.
- Managed and mentored engineers delivering SQL and ETL workflows.
- Improved pipeline performance and reliability by implementing monitoring strategies.
- Reviewed SQL code and ensured adherence to data engineering standards.

**Technologies:** PostgreSQL, Pentaho ETL, AWS (POCs), SQL

**Domain:** Real Estate

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## **Database Developer**

**Technevity Solutions — Rawalpindi, Pakistan**

*Feb 2021 – May 2022*

- Developed complex SQL queries, stored procedures, and optimized database performance.
- Implemented healthcare data transformations and reporting logic.
- Performed database migration, replication, and validation checks.
- Maintained MySQL and SQL Server production environments.

**Key Projects:**

- Epic & Cerner Healthcare Data Integration
- Centralized Database Logic Migration (VST Balance)

**Technologies:** MySQL, SQL Server, AWS DMS, SQL

**Domain:** Healthcare IT

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## **Senior Database Developer**

### **MTBC — Rawalpindi, Pakistan**

*Feb 2020 – Feb 2021*

- Developed T-SQL stored procedures, indexing strategies, and performance optimizations.
  - Managed backup, replication, and monitoring strategies.
  - Contributed to cloud-based analytics platform using Snowflake and AWS.
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## **DBA & Database Developer**

### **MTBC — Rawalpindi, Pakistan**

*Aug 2017 – Feb 2020*

- Installed, configured, and maintained PostgreSQL and SQL Server databases.
  - Automated database operations and optimized production workloads.
  - Implemented replication, backup, and disaster recovery processes.
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## **Software Engineer**

### **MTBC — Rawalpindi, Pakistan**

*Dec 2010 – Aug 2017*

- Delivered SQL-based healthcare data integration and reporting solutions.
  - Automated ingestion and transformation pipelines using SQL Server.
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## **Technical Skills**

### **Cloud Platforms**

AWS (Glue, Athena, S3, Lambda, Step Functions, EventBridge)

Azure (ADF, Databricks, Synapse, ADLS Gen2, Azure SQL)

Google BigQuery

### **Data Engineering & Architecture**

Data Lakes | Data Warehousing | ETL/ELT | Batch & Event Pipelines

Distributed Systems | Dimensional Modeling | Data Lifecycle Management

## **Processing Frameworks**

Databricks | Spark (PySpark) | AWS Glue

## **Databases**

SQL Server (T-SQL) | PostgreSQL | MySQL | Snowflake

## **DevOps & Collaboration**

Git | CI/CD Pipelines | Agile/Scrum

## **Programming**

Python | SQL

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## **Education**

### **B.Sc. (Hons) Computer Science**

University of Engineering and Technology (UET), Lahore

2006 – 2010

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## **Languages**

English – Business Fluent

Urdu – Native