Shashank Mishra

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🔗 Shashank_Portfolio

PROFILE

Strategic and results-driven **Azure Data Engineer** with **7+ years of experience** in designing and delivering **scalable, secure, and cost-optimized cloud data platforms** on Microsoft Azure. Proven track record of building **high-performance batch and streaming data pipelines** that power **real-time analytics, predictive insights, and business decision-making** at enterprise scale.

Hands-on expertise in **Azure Synapse Analytics, Databricks, Data Factory (ADF), Microsoft Fabric, and Delta Lake**, with strong foundation in **data modeling, orchestration, performance tuning, and distributed systems**. Skilled in **data governance, security, and compliance frameworks**, ensuring reliable and regulatory-aligned solutions. Experienced in leading **end-to-end data engineering projects** across **energy, retail, and fleet domains**, driving measurable impact in **cost optimization, sustainability reporting, and operational efficiency**.

SKILLS

- **Cloud & Data Engineering**: Microsoft Fabric, Azure Synapse Analytics, Azure Databricks, Azure Data Factory (ADF), Azure Stream Analytics, Azure Functions, Azure Event Hubs, ADLS Gen2, Azure Blob Storage
- **Data Lakehouse & ETL/ELT**: Delta Lake, Medallion Architecture (Bronze–Silver–Gold), SSIS, Orchestration (ADF Pipelines, Control-M, Airflow basics), Data Governance & Security, Cost Optimization
- **Programming & Scripting**: Python, PySpark, Pandas, C#, SQL (T-SQL, Spark SQL), Scala (basic)
- **Big Data & Streaming**: Hadoop, Apache Kafka, Spark Structured Streaming, YARN, Cosmos DB
- **Data Modeling & Analytics**: Data Modeling (Star/Snowflake), Performance Tuning, Power BI, DAX, Reporting & Dashboarding
- **DevOps & Tools**: GitHub Actions, Azure DevOps CI/CD, Monitoring & Logging (Azure Monitor, Log Analytics)

PROJECTS

Project 1: Shell Retail Unified Integration   Jan 2025 – present
- Designed and delivered a **real-time analytics platform on Microsoft Fabric Lakehouse** integrating fuel sales, EV charging, logistics, and carbon emissions.
- Implemented **Medallion Architecture (Bronze/Silver/Gold)** with PySpark notebooks, Dataflows Gen2, and Fabric Pipelines (with retries, alerts).
- Integrated Power BI dashboards enabling **70% faster reporting** and **real-time sustainability insights** for leadership.
- **Tech:** Microsoft Fabric, Lakehouse, Synapse, Databricks, PySpark, Delta Lake, ADF, Power BI, Dataflows Gen2

Project 2 : Cost Analysis and Data Integration Tool   Apr 2021 – Dec 2024
- Migrated an **on-prem SSIS-based data warehouse** to a modern Azure ecosystem (ADF, Synapse, Databricks).
- Re-engineered ETL pipelines for Salesforce, Azure SQL, SharePoint, and Excel data sources into a **Lakehouse architecture**.
- Improved performance by **30%** through partitioning, Delta optimization, and pipeline parallelization.
- Established **monitoring & error handling** in ADF to ensure reliability and scalability.
- **Tech:** Azure Synapse Analytics, Azure Databricks, Azure Streaming Analytics, Azure Data Factory, SSIS, Azure SQL Server, SharePoint, Azure File Share, PySpark, C#, Python, Pandas

Project 3: Enterprise Integration Migration   Sep 2020 – May 2022
- **Led a team of 5 engineers** to migrate enterprise-wide integrations from **MuleSoft and StreamSets** to **Azure Data Factory**, ensuring minimal downtime.
- Designed scalable **ADF pipelines** with parameterization, reusable templates, and CI/CD deployment via Azure DevOps.

- Collaborated with architects and business teams to define migration strategy, cutover plan, and validation framework.
- Delivered **100% migration within planned timelines**, reducing license cost and improving maintainability.
- **Tech:** Azure Data Factory, Azure DevOps, Azure SQL Database, GitHub, Key Vault

PROFESSIONAL EXPERIENCE

Associate Software Engineer   Apr 2023 – present | Bangalore, INDIA
Shell

Senior Software Engineer   Aug 2018 – Mar 2023 | Bangalore, INDIA
Wipro

EDUCATION

Master of Technology in Software Engineer   2019 – 2023 | Pilani, INDIA
Birla Institute of Technology And Science

Bachelor of Computer Application   2015 – 2018 | Kanpur, INDIA
CSJM University

AUTOMATIONS

Generic File Transfer

Generic File Transfer Automation: Designed an automated solution in Azure Data Factory to trigger scheduled file transfers from source to target without transformations, improving data pipeline efficiency and reducing manual intervention.

Compliance Check

Python code has been written to verify that the ADF pipeline is adhering to the naming conventions set up by the organization's standards and that no passwords or credentials are exposed.

ACHIEVEMENTS

Excellence

- Received the Europe Excellence Extraordinaire Award from the customer.
- Achieved a certificate of appreciation for successfully completing the Mulesoft migration.
- Secured 1 Gold and 1 Bronze medal for finishing in 1st and 3rd positions in Cricket and Football, respectively.
- Honored with the "Star of the Month" award 3 times in April, July, and September in 2024.