

AYUSHII HARLALKA

Lead Data Engineer | Azure Data Platform | ADF · Microsoft Fabric · SSIS

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Profile

Lead Data Engineer with 6+ years of engineering experience designing and delivering scalable data platforms and analytics solutions on Azure. Strong expertise in **Azure Data Factory, SSIS, SQL Server, Python, and Microsoft Fabric**, with hands-on ownership across ingestion, transformation, orchestration, and governance. Proven experience leading teams, managing client delivery, and building reliable, high-performance data solutions. **Microsoft Fabric DP-700 certified**, validating hands-on expertise in modern analytics platforms.

Expertise

Data Engineering & Cloud Platforms

- Microsoft Fabric (Lakehouse, Data Warehouse, Data Pipelines, Dataflow Gen2)
- Azure Data Factory (ADF)
- SQL Server, Azure SQL
- SSIS, KingswaySoft
- Medallion Architecture (Bronze–Silver–Gold)

Data Processing & Programming

- SQL (advanced querying, performance optimization)
- Python (data transformation, cleansing, automation)

Data Integration & Analytics

- Dynamics 365 CRM data integration
- API-based data ingestion
- Power BI (reporting, embedded analytics)

Architecture, Quality & Governance

- Data modeling and schema design
- Data validation, reconciliation, and monitoring
- Security, RBAC, and data governance practices

DevOps & Collaboration

- Azure DevOps, Azure Repos
- CI/CD practices for data pipelines
- Client-facing delivery and stakeholder communication
- Team leadership, mentoring, and onboarding

Professional Experience

Lead Data Engineer, Inkey IT Solutions

July 2023 – Present | surat,India

- Lead and mentor a team of **5–6 data engineers**, driving technical execution, code quality, and on-time delivery across multiple client engagements.
- Own end-to-end **data platform architecture and delivery**, including **Azure Data Factory, SSIS, and Microsoft Fabric** pipelines processing **100–200 GB/month** of production data.
- Drive **technical decision-making**, pipeline design standards, data validation frameworks, and governance practices across projects.

- Act as the **primary technical point of contact** for clients, translating business requirements into scalable data solutions.
- Conduct **technical interviews**, evaluate candidates, and contribute to hiring decisions for data and software engineering roles.
- Design and deliver **internal training and onboarding programs** for interns and junior engineers, accelerating team productivity.
- Represent the organization in **technical seminars and campus engagements**, strengthening hiring pipelines and technical brand presence.
- Earned consistent **positive client feedback** for solution quality, delivery reliability, and technical ownership across multiple engagements.

Senior Software Engineer – Backend & Data Foundations,

June 2019 – May 2023

Differenz System

- Built and maintained **backend-heavy enterprise applications** using .NET and SQL Server, developing strong expertise in **data modeling, query optimization, and transactional systems**.
- Designed and optimized **complex SQL queries, stored procedures, and database schemas**, supporting reporting and data-intensive business workflows.
- Worked with both **SQL and NoSQL databases** (e.g., MongoDB/RavenDB), enabling flexible data storage for cross-platform applications.
- Led and collaborated with a **small team of 2-3 developers**, balancing hands-on development with technical guidance and task ownership.
- Worked closely with clients to translate business requirements into **structured data models and backend logic**, ensuring data consistency and integrity.
- Collaborated with cross-functional teams on **system architecture, performance tuning, and production issue resolution**.
- Trained and mentored **interns and junior developers**, supporting onboarding and skill development.
- Established a strong foundation in **data-centric system design**, enabling a successful transition into cloud-based data engineering and analytics platforms.

Projects

Dynamics 365 CRM → Microsoft Fabric Lakehouse Migration, Lead Data Engineer

Tech: Microsoft Fabric, Dataflow Gen2, Lakehouse, Power BI

- Led end-to-end migration of **Dynamics 365 CRM data** into **Microsoft Fabric Lakehouse**, enabling centralized analytics and reporting.
- Designed **secure and governed ingestion pipelines** with clear data ownership and access controls.
- Implemented **Bronze–Silver–Gold (Medallion) architecture** to support scalable analytics and downstream BI use cases.
- Integrated **Power BI** with Fabric to deliver near real-time insights and enterprise reporting.
- Embedded **Power BI reports into web applications**, enabling secure, role-based analytics access for end users.
- Owned **client communication, architecture decisions, and final delivery**.

API to Microsoft Fabric Data Warehouse Ingestion, Lead Data Engineer

Tech: Microsoft Fabric, Python, REST APIs, Data Pipelines, Azure Repos

- Architected and delivered a **secure API-driven ingestion framework** into **Microsoft Fabric Data Warehouse**.
- Developed **Python-based transformation and data cleansing logic** to handle structured and semi-structured API payloads.

- Implemented **orchestration and scheduling** using Fabric Data Pipelines, ensuring reliable and repeatable data loads.
- Established **version control and deployment practices** using Azure Repos for data pipeline code.
- Ensured **data quality, consistency, and performance optimization** across ingestion workflows.

Multi-Source Data Ingestion Platform (Azure Data Factory), Senior Data Engineer

Tech: Azure Data Factory, SQL Server, Python

- Designed and implemented **Azure Data Factory pipelines** ingesting data from **SQL databases, CSVs, text files, and REST APIs** into Azure SQL.
- Processed **100-200 GB/month** of production data with reliable scheduling, monitoring, and failure handling.
- Applied **Python-based transformations** to standardize, cleanse, and enrich incoming datasets, including unstructured sources.
- Established **reusable ingestion patterns and parameterized pipelines**, improving scalability and delivery speed across projects.
- Collaborated with stakeholders to ensure **data accuracy, validation, and operational stability**.

Dynamics 365 CRM → SQL Server Migration (SSIS), Senior Data Engineer

Tech: SSIS, KingswaySoft, SQL Server, Dynamics 365 CRM

- Led large-scale **Dynamics 365 CRM entity and activity migration** into SQL Server using **SSIS and KingswaySoft**.
- Designed and implemented **data validation, reconciliation, and error-handling frameworks** to ensure accuracy and completeness.
- Automated ETL workflows to improve **migration efficiency, reliability, and repeatability**.
- Implemented **role-based access controls (RBAC)** to ensure secure data access post-migration.
- Coordinated testing, production rollout, and post-migration stabilization with stakeholders.

Certificates

Microsoft Fabric DP-700

Demonstrated proficiency in designing and implementing end-to-end analytics solutions using Microsoft Fabric, including data ingestion, transformation, lakehouse and warehouse architecture, and analytics engineering best practices.

Education

Bachelors of Computer Application,

C.B. PATEL COMPUTER COLLEGE VNSGU

Surat, India

Masters of Computer Application,

UKA TARSADIA UNIVERSITY

Bardoli, India

Recognition

Most Dedicated Employee of the Quarter, Differenz system

Best Squad of the Year, Inkey IT Solution