

Akshay Budhalkar

Lead Data Engineer | Cloud Modernisation | AWS | Snowflake | Team Leadership

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PROFESSIONAL SUMMARY

Results-driven Lead Data Engineer with 9+ years of experience architecting and delivering enterprise-scale cloud data solutions across telecommunications, retail, insurance, and HR technology domains. Proven leader of large-scale cloud modernisation initiatives — currently spearheading a DB2 to Snowflake migration while managing a team of 10+ data engineers. Deep expertise in AWS-native pipelines (Lambda, Glue, DMS, S3, CloudWatch, CDK), Snowflake, Snowpipe, Python, and Informatica. AWS Certified Solutions Architect – Associate. Skilled at aligning data engineering strategy with enterprise business objectives and delivering high-impact solutions in fast-paced, multi-cultural, international environments.

TECHNICAL SKILLS

Cloud & Infrastructure: AWS Lambda, AWS Glue, AWS DMS, AWS S3, AWS CloudWatch, AWS CDK, Snowpipe, Amazon Redshift

Data Warehousing & Migration: Snowflake, DB2-to-Snowflake Migration, Amazon Redshift, Teradata, IBM DB2

ETL & Integration: Informatica PowerCenter 10.x, Python (Pandas), SQL, PL/SQL, Data Pipeline Architecture

Leadership: Team Leadership (10+ Engineers), Technical Mentorship, Agile Delivery, Stakeholder Management

DevOps: Git / GitHub, CI/CD Pipelines, AWS CDK (IaC), Active Batch, Streamlit

EXPERIENCE

LEAD DATA ENGINEER

Principal Global Services, Pune | April 2022 – Present

Project 1: DB2 to Snowflake Cloud Migration (Enterprise Modernization)

- Leading end-to-end migration from IBM DB2 to Snowflake as the primary cloud modernization initiative, heading a cross-functional team of 10+ data engineers across junior to senior levels.
- Architected the full migration pipeline: AWS Glue for ETL orchestration, AWS DMS for schema and data migration, and Snowpipe for automated continuous ingestion into Snowflake.
- Designed Snowflake stored procedures for complex business-logic transformations and post-migration data validation, ensuring zero data loss and reconciliation accuracy.
- Defined team delivery standards, sprint planning, code review processes, and technical mentorship programmes to upskill junior engineers.
- Collaborated with business stakeholders to define migration priorities, manage timelines, and communicate status at executive level.
- Established rollback and disaster-recovery frameworks for each migration phase, reducing deployment risk.

Project 2: iCIMS to Oracle HCM Data Integration

- Designed and delivered an end-to-end HR data integration pipeline between iCIMS (ATS) and Oracle HCM using AWS Lambda, S3, CloudWatch, CDK, and Python (Pandas).
- Automated HR data flow, improving reliability and eliminating manual intervention across the recruitment-to-onboarding lifecycle.
- Led additional vendor integration projects involving complex data transformations and secure, time-critical file delivery to external partners via AWS infrastructure.
- Managed CI/CD pipelines using GitHub and leveraged AWS CDK for infrastructure-as-code deployments.
- Monitored system health via AWS CloudWatch, proactively detecting and resolving performance bottlenecks.

SENIOR EXECUTIVE – ETL DEVELOPER

Infocepts, Pune | April 2021 – April 2022

Project: DWH-Kunde – Deutsche Telekom (Europe's Largest Telecom Provider by Revenue)

- Integrated customer data from multiple telecom business units (voice, mobile, broadband) into a centralized data warehouse, enabling business intelligence and customer retention analytics.
- Managed call-centre data integration streams to support targeted customer retention initiatives and decision-making.
- Performed enhancements to existing ETL processes to meet evolving business requirements and improve throughput.
- Ensured data quality and consistency across all source systems, maintaining high reliability of the customer DWH.

SOFTWARE ENGINEER – ETL DEVELOPER

TietoEvry, Pune | October 2020 – March 2021

Project: Kesko Retail Store Project (Leading Finnish Retail Conglomerate)

- Built and maintained Informatica PowerCenter ETL pipelines ingesting data from FTP servers and Oracle databases into a Teradata data warehouse.
- Enhanced Teradata macros and ETL mappings to improve processing efficiency and accommodate new business requirements.
- Provided production support, performed daily monitoring and validation of mappings, and conducted ETL testing.

ASSOCIATE – ETL DEVELOPER

Synechron Technologies, Pune | March 2017 – October 2020

Project: Asurion DataMart – Insurance Data Integration

- Developed and enhanced ETL mappings for Asurion's DataMart using Informatica 10.x, Python, SQL Server, AWS Redshift, and HIVE.
- Created Source-to-Target Mapping Documents and performed unit testing for DataMart initial loads.
- Automated DataMart change monitoring via Python scripts and optimised ETL performance using PowerExchange; used Active Batch for scheduling.

EDUCATION

B.E. in Computer Science

Sant Gadge Baba University, Amravati | July 2016 | 61%

HSC (General)

Jagruti Vidyalaya, Akola | June 2012 | 65.83%

SSC (General)

Jagruti Vidyalaya, Akola | June 2010 | 77.82%

CERTIFICATIONS

- AWS Certified Solutions Architect – Associate

LANGUAGES

Marathi (Native) | English (Fluent)