

TEJVEER SINGH

Senior Lead Architect / Engineer — Big Data, Cloud & AI Solutions

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PROFESSIONAL SUMMARY

Data has a habit of sprawling — legacy systems, scattered lakes, a dozen versions of "the truth." I spend my time turning that sprawl into something worth trusting: secure Lakehouse platforms on AWS, Snowflake, and Databricks, governed data products, and increasingly the GenAI and agentic workflows built on top of them. 10+ years, seven industries (healthcare, aviation, insurance, banking, and telecom among them), and I still get an unreasonable amount of satisfaction from a pipeline that finally goes green.

SKILLS & EXPERTISE

- Data Architecture & Solution Design — end-to-end platform strategy from ingestion to consumption
- Cloud Platforms: AWS (EC2, S3, Redshift, Glue, EMR, IAM), GCP, Snowflake
- Infrastructure-as-Code: Terraform, CloudFormation
- Big Data & Streaming: Spark, Hadoop, Kafka, NiFi
- ETL/ELT Development: Azure Data Factory, Matillion, StreamSets, PySpark, Python
- Databricks, AI & Machine Learning
- Data Migration & Integration — legacy-to-cloud, multi-source ingestion at scale
- Data Visualization, Storytelling & AI-Powered Insights
- Stakeholder Engagement, Technical Consulting & Cross-Team Leadership

PROFESSIONAL EXPERIENCE

NTT DATA UK&I | Senior Lead Architect / Engineer

Client engagements delivered as part of NTT DATA UK&I, spanning healthcare, aviation, insurance, banking, and telecom.

NHS (GSTT & LGT) | Senior Lead Data Engineer — Current

- Leading a team of data engineers delivering the migration of legacy clinical and operational systems to Snowflake, using Azure Data Factory for orchestration and ingestion.
- Own the technical design and delivery quality of the migration, including source-to-target mapping, data type and schema remediation, and pipeline reliability across multiple legacy source systems.
- Provide technical direction and review across the team, ensuring migration pipelines are robust, auditable, and fit for downstream analytics and reporting.

British Airways | Solutions Architect

- Worked on British Airways' Operational Data Integration Platform (Data Product Factory), architecting domain-specific, reusable, governed data products.
- Partnered with business stakeholders to understand core use cases and translate them into data product designs.
- Drove adoption of a governed, reusable data product model, reducing duplication and improving trust in data across domains.

Zurich Insurance | Solutions Architect / Engineer

- Architected and delivered a full legacy-to-cloud migration onto AWS and Snowflake, defining a scalable, Infrastructure-as-Code platform (CloudFormation) that made cloud deployments automated, secure, and repeatable.
- Built and optimized Matillion ETL pipelines ingesting multi-source data into Snowflake, raising ingestion reliability and performance across the platform.

- Streamlined data integration workflows underpinning enterprise analytics, reporting, and BI use cases.
- Embedded data quality, consistency, and security controls across the full migration and ingestion lifecycle.

AON Insurance | *Solutions Architect*

- Defined and implemented a scalable AWS analytics architecture that accelerated insurance data use cases and business intelligence delivery.
- Designed StreamSets ETL pipelines ingesting data from diverse sources with high reliability and performance.
- Delivered self-service, ad-hoc data transformation capabilities, improving cost-efficiency and flexibility without compromising reliability.

Nationwide Building Society | *Solutions Architect*

- Designed and built a Terraform-provisioned Data Lake for Amazon Connect, enabling both historical and live contact-centre analytics.
- Delivered real-time analytics on contact-centre metrics, directly improving customer service and banking relationships.

Lyca Mobile | *Lead Data Engineer*

- Led a technology team through the migration of core business data from legacy systems to a modern AWS cloud platform.
- Implemented the AWS platform using Terraform (IaC), ensuring consistent, repeatable infrastructure.
- Delivered an advanced analytics solution that improved scalability and self-service access to business insights.

Commerzbank | *Senior Big Data Engineer*

- Designed and built an open-source enterprise search platform (Solr, Spark, HBase, Hive) indexing 1.3B+ transaction records with faceted search and navigation.
- Built high-performance streaming pipelines (Spark, Kafka, NiFi) that eliminated data errors and reduced latency at scale.
- Developed a distributed, highly parallelized big data pipeline processing large volumes of structured and unstructured data in near real-time.

EDUCATION

MSc Computing Science — University of Glasgow

CERTIFICATIONS

- Databricks Certified Data Engineer Professional
- Databricks Certified Data Engineer Associate
- Databricks Certified Generative AI Engineer Associate
- SnowPro Core Certification
- AWS Certified Data Analytics – Specialty
- AWS Certified Solutions Architect – Professional