

SABRIN LAL SINGH

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PROFESSIONAL SUMMARY

Data Engineer with 8+ years of experience building and optimizing large-scale data pipelines across AWS and Databricks platforms. Skilled in SQL, Python, PySpark, Delta Lake, and Snowflake with domain expertise in US healthcare data. Proven success improving data quality, automating validation, and leading cross-functional teams to deliver scalable, secure, and high-performance data solutions.

CORE COMPETENCIES

- **Data Engineering:** ETL/ELT design, data modeling (Databricks Workflows)
- **Big Data & Cloud:** Databricks, Delta Lake, PySpark, AWS (S3, Redshift), Snowflake
- **Data Quality & Testing:** Automated validation, reconciliation, profiling
- **Optimization & Automation:** SQL tuning, Pandas scripting, performance monitoring
- **AI & LLM Operations:** Data Quality, LLM Evaluation, Prompt Engineering, AI Data Governance
- **Versioning, CI/CD & Workflow:** Git, Jira
- **Healthcare Domain:** HIPAA compliance, claims lifecycle, encounter data

PROFESSIONAL EXPERIENCE

Data Engineering Consultant / Advisor (Part-time) CoWrkr · Remote, United States | Aug 2025 – Present

- Advise on the **design and implementation of scalable data pipelines** and **data quality frameworks** supporting enterprise analytics and AI initiatives.
- Lead **data quality initiatives** ensuring consistency, reliability, and auditability across **Dev, Stage, and Prod** environments.
- Support **LLM QA processes** — evaluating model responses, validating prompt accuracy, and ensuring data alignment.
- Develop and refine **LLM prompts** to enhance model training efficiency and contextual grounding.

- Collaborate with **data engineers, analysts, and AI researchers** to improve data integrity and model performance.

Principal Data Engineer

Cedar Gate Services Pvt. Ltd. · Lalitpur, Nepal | Sep 2025 – Present

- Ingested and processed large dataset from diverse sources into centralized data warehouse
- (Redshift), ensuring clean, consistent, and accessible data for analytics and reporting.
- Collaborated with cross-functional teams to gather data requirements.
- Maintained and optimized data infrastructure by developing custom SQL queries, user-defined functions, and stored procedures in Redshift to enable efficient data exploration.
- Defined and documented data deliverables, pipelines, and models to ensure alignment with business goals and analytics needs.
- Developed **PySpark-based ingestion optimization**, increasing healthcare data throughput by **30%**.
- Collaborated on **data model design for BI and AI analytics**, ensuring scalability and consistency.
- Implemented **data governance framework** aligned with US healthcare standards and HIPAA.
- Mentored junior engineers on best practices in data engineering.

Senior Software (Data) Engineer

Techkraft Inc. Pvt. Ltd. · Lalitpur, Nepal | Oct 2022 – May 2024

- Led migration of legacy pipelines to **Databricks + Delta Lake**, improving scalability by **40%**.
- Designed reusable **data quality framework** in PySpark, handling structured and semi-structured data.
- Implemented **anomaly detection scripts** to proactively flag data integrity issues.
- Mentored **8-member team**, driving project delivery and SLA adherence.

Software (Data) Engineer

Cotiviti Nepal Ltd. · Kathmandu, Nepal | Mar 2018 – Oct 2022

- Developed and maintained **ETL workflows** (ODI, Oracle SQL, Python) for US healthcare claims.
- Reduced report generation time by **35%** through SQL optimization.
- Automated **manual reconciliation processes**, increasing throughput and data accuracy.

Software Engineer (PHP Developer)

IMS Investment Management Service Pvt. Ltd. · Kathmandu, Nepal | Mar 2018 – Oct 2022

- Built **backend integration modules** in PHP/MySQL for investment tracking systems.
- Optimized database performance via query tuning and caching.

Trainee Data Engineer

Cotiviti Nepal Ltd. · Kathmandu, Nepal | Mar 2018 – Oct 2022

- Supported ETL workflows using Oracle SQL for healthcare data pipelines.
- Performed data profiling and validation tasks to ensure analytics readiness.

EDUCATION

Bachelors in computer engineering – Kathford International College of Engineering and Management, Lalitpur (2012 – 2016)

+2 (Science) – Xavier International College, Kathmandu (2010 – 2012)

LANGUAGES

Nepali | English | Hindi | Nepal Bhasa (Newari)

REFERENCES

Dipu Maharjan, Principal Software Engineer – LIS Nepal Pvt. Ltd., 9841700042
Santosh Koirala, Executive Director – Techkraft Inc. Pvt. Ltd., 9851104609