Animesh Jha

GitHub — LinkedIn — Portfolio

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Location: Kathmandu, Nepal

Summary

Data Engineer with hands-on experience in fintech and Core Banking Systems, specializing in PostgreSQL, SQL, data migration, validation, and reconciliation. Skilled in analyzing legacy databases, transforming complex datasets, and resolving source-to-target data discrepancies across production environments.

Experience

Associate Data Engineer
Premium Technologies, Nepal
December 2025–Present

- Managed and processed data from multiple source systems including PostgreSQL, SQL Server, Microsoft Access, Excel, and CSV files.
- Performed ETL-based data migration, transformation, and loading into target database systems.
- Conducted data validation, reconciliation, and quality checks to ensure data accuracy and consistency.
- Worked on data modeling and source-to-target data mapping for migration and reporting requirements.
- Prepared and analyzed datasets for reporting and data visualization requirements.
- Monitored database and server environments to ensure availability, connectivity, and performance.
- Optimized databases through query tuning, indexing, and performance analysis.
- Developed SQL queries, views, and data-processing logic to solve complex business and financial data problems.
- Supported database deployment, configuration, backup, restoration, and production troubleshooting.

Education

B.Tech in Computer Science & Engineering
C. V. Raman Global University, Bhubaneswar, India
2019–2023
CPI: 8.39 / 10

Skills

- **Programming Languages:** Python, Node.js, SQL
- **Databases:** PostgreSQL, Microsoft SQL Server, Microsoft Access
- **Database Tools:** pgAdmin, SQL Workbench, SSMS
- **Data Engineering:** ETL, Data Migration, Data Mapping, Data Transformation, Data Profiling, Data Validation, Data Reconciliation, Data Quality
- **Data Processing:** Pandas, Microsoft Excel, CSV Processing
- **DevOps & Version Control:** Docker, Jenkins, Git, AWS Fundamentals
- **Systems & Deployment:** Linux, Ubuntu, IIS, Nginx
- **Financial Domain:** Core Banking Systems, SACCO, KYC, Deposits, Loans, Shares, Transactions, Ledgers, General Ledger (GL), Chart of Accounts (COA), Interest, Tax, Penalties

Certifications

- AWS Academy Cloud Foundations
- Cisco CCNA – 3 Course Certificates

Strengths

- **Analytical Problem-Solving:** Strong ability to analyze complex data issues, identify root causes, and implement reliable solutions across migration and production environments.
- **Data Engineering Ownership:** Experienced in handling end-to-end data workflows including extraction, transformation, validation, reconciliation, and database integration.
- **Database Optimization:** Skilled in improving database performance through query tuning, indexing, execution

analysis, and efficient data-access strategies.

- **Data Quality & Reliability:** Focused on maintaining accurate, consistent, and reliable data through validation, integrity checks, and source-to-target reconciliation.
- **Technical Adaptability:** Comfortable working across multiple database platforms, legacy systems, Linux environments, deployment tools, and production support workflows.
- **Cross-Functional Collaboration:** Able to work effectively with development, QA, infrastructure, and business teams to resolve data and system-related challenges.

Research & Projects

Multi-Tier Application using Docker

- Built a containerized application using Docker, Docker Compose, Nginx, FastAPI, and PostgreSQL.
- Configured service networking and application-to-database connectivity.
- Used Nginx as a reverse proxy for the application service.
- Managed source code using Git and GitHub.

PostgreSQL Streaming Replication Lab

- Configured a PostgreSQL primary/standby replication environment.
- Implemented WAL-based streaming replication.
- Used `pg_basebackup` to initialize the standby PostgreSQL server.
- Configured PostgreSQL server settings, ports, network connectivity, and replication parameters.