

ARJUN K SAJEEVAN

Data Engineer

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PROFESSIONAL SUMMARY

Result-driven Data Engineer with over 5 years of experience in architecting high-performance data pipelines and leading large-scale legacy-to-cloud migrations. Expert in managing massive datasets (2 Billion+ records) and designing modular frameworks adopted as departmental standards. Proven track record of optimizing ETL workflows (reducing latency by 70%) and owning mission-critical applications supporting 1,000+ global analysts.

TECHNICAL SKILLS

- **Data Engineering:** Data Lakehouse (Iomete/Iceberg/S3), PySpark, ETL/ELT, NRT Reporting, API Ingestion.
- **Languages:** SQL (Advanced T-SQL), Python (PySpark), Java.
- **Big Data & Tools:** Hadoop, Teradata, Neo4J, Sqoop, TPT Scripts, Airflow, SSIS, SSAS, SSMS.
- **Modern Stack (Familiar):** DBT, Databricks, Apache Kafka, AWS (Currently Learning).

PROFESSIONAL EXPERIENCE

DELL TECHNOLOGIES | Data Engineer

Bangalore, India | Dec 2022 – Present

Application Ownership & Stakeholder Impact

- **Product Ownership (Orders Process):** Own the end-to-end architecture and operations of the Orders Process application, a mission-critical reporting platform used by 1,000+ analysts. Designed and maintained large-scale ETL pipelines integrating data from Teradata, Hadoop, and APIs using SSIS, TPT, and PySpark, with transformations implemented through optimized Stored Procedures. Manage a complex data ecosystem consisting of 300+ tables and 60+ views, with all ingestion and processing pipelines orchestrated through Apache Airflow. Deliver the reporting layer via a highly available OLAP architecture deployed behind a load balancer, ensuring reliable and uninterrupted analytics access.
- **Modernization & Migration (Ongoing):** Spearheading the transition of 15-year-old legacy infrastructure (SQL Server, SSIS, SSAS, Hadoop) to a Modern Data Lakehouse architecture utilizing Iomete, Apache Iceberg, and AWS S3.
- **Workflow Orchestration:** Successfully migrated 30+ complex SQL Server Agent jobs to Apache Airflow, improving system observability, scheduling reliability, and error-handling.

Architectural Design & High-Scale Engineering

- **Modular Architecture Design:** Designed and deployed a standardized PySpark framework for Neo4J-to-Hadoop migrations. Developed a centralized utility.py (reusable functions) and parameter-driven config system now adopted as the standard departmental template.
- **API Ingestion Framework:** Engineered end-to-end ingestion pipelines using PySpark to pull data from Swagger APIs into Hadoop, including automated data cleansing and validation stages.
- **Pipeline Optimization:** Re-engineered core ETL processes, successfully reducing processing cycles from 2 hours to 35 minutes.
- **Near Real-Time (NRT) Reporting:** Built an hourly automated pipeline for "Order Attribution" analysis. Processes 1M+ records in under 15 minutes, enabling stakeholders to differentiate between online and offline procurement in near real-time.
- **Massive Scale Migration:** Developed TPT (Teradata Parallel Transporter) scripts to facilitate the high-speed transfer of 2 billion+ records from Teradata to SQL Server.
- **Automated Incremental Loads:** Built a Sqoop-based framework using control tables to automate incremental loads for 100+ tables from Teradata to Hadoop.

MERKLE | Software Engineer (Cloud & Data)

Bangalore, India | July 2021 – Dec 2022

- **Cloud Rearchitecture:** Played a key role in the re-architecture of the Digital Shelf platform, migrating from a legacy Java/Athena stack to Snowflake, SQL, and DBT.
- **Data Modeling:** Designed and maintained scalable relational models in Snowflake to support high-volume digital marketing analytics.
- **Business Translation:** Collaborated with data analysts to translate complex business requirements into technical ETL specifications.

SOLUTIONS & PERSONAL PROJECTS

- **Healthcare SaaS (Dental Clinic Management):** Built an end-to-end software solution using Google App Script and Google Sheets backend to manage patient records, financial data, and clinic operations.
- **Dental Clinic Web Development:** Designed and developed a WordPress-based website for a dental clinic in Bangalore, managing end-to-end development including UI design, content structuring, and deployment.
- **E-commerce & POS Integration:** Developed a complete Shopify website for a UK-based store, including end-to-end setup and POS (Point of Sale) integration.

EDUCATION & CERTIFICATIONS

- **Bachelor of Technology (B.Tech):** Electronics and Communication, Mangalore Institute of Technology and Engineering (2014-2018)
- **Certificate in Data Science:** Board Infinity, Mumbai (2020-2021)