RAMKUMAR G

Data Engineer | Snowflake | Fivetran | Power BI | AWS | SQL | Informatica IICS

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PROFESSIONAL SUMMARY

Aspiring Data Engineer with hands-on project experience building production-grade ELT pipelines using Fivetran, Informatica IICS, and Snowflake, and delivering analytics dashboards in Power BI. Proficient in advanced Snowflake features including Time Travel, Cloning, RBAC, Data Sharing, Query Optimization, Clustering, External Tables, UDFs, Replication, and Scripting. Skilled in multi-source data ingestion (AWS S3, Oracle, MySQL), multi-layer data architecture (RAW, STAGING, ANALYTICS), Star Schema modeling with Views, and Snowflake automation using Streams and Tasks. Eager to contribute to real-world data infrastructure in a fast-paced team.

TECHNICAL SKILLS

Data Warehouse	Snowflake — Advanced (Streams, Tasks, Time Travel, Cloning, RBAC, Data Sharing, Query Optimization, Clustering, Search Optimization, Query Acceleration, External Tables, UDFs, UDTFs, Replication, Resource Monitors, Scripting, Alerts, Managed Access Schemas, Password & Session Policies)
ELT / Integration	Fivetran — Intermediate (Incremental Syncs, Schema Evolution)
BI & Analytics	Power BI — Intermediate (Data Modeling, DAX, DirectQuery)
Database	SQL — Advanced; MySQL — Intermediate; Oracle SQL — Intermediate
Programming	Python — Intermediate
Cloud	AWS S3, AWS RDS, IAM (Roles, ARN, Trust Policy)
ETL	Informatica IICS — Intermediate (Mappings, Multi-source Integration, Source-to-Target)
DevOps / OS	GitHub, Linux, Windows

PROJECTS

Project 1: End-to-End Modern Data Stack (MDS) Pipeline | Fivetran • Snowflake • Power BI • AWS RDS (MySQL)

Flow: AWS RDS (MySQL) → Fivetran → Snowflake → Power BI

- Architected a multi-layer ELT framework (RAW, STAGING, ANALYTICS) within Snowflake to ensure modularity and high data quality across the pipeline.
- Automated complex SQL transformations using Snowflake Streams and Tasks, reducing manual intervention and enabling near real-time data availability.
- Engineered incremental synchronization logic via Fivetran to optimize Snowflake credit consumption and handle schema evolution without pipeline breakage.
- Implemented a Star Schema dimensional model to improve query performance for downstream BI reporting and ad-hoc analysis.
- Integrated AWS S3 with Snowflake using IAM Roles and Trust Policies, enabling secure and scalable data load/unload operations.
- Developed interactive dashboards in Power BI using DirectQuery and advanced DAX, providing stakeholders with live visibility into key business metrics.

Project 2: Multi-Source ELT Analytics Pipeline | Informatica IICS • Oracle • AWS S3 • Snowflake • Power BI

Flow: AWS S3 (CSV) + Oracle SQL Developer → Informatica IICS → Snowflake → Star Schema Views → Power BI

- Designed a multi-source ingestion pipeline combining flat file data from AWS S3 (CSV) and relational data from Oracle SQL Developer to simulate enterprise-grade data integration.

- Built source-to-target mappings in Informatica IICS to extract, transform, and load data from multiple heterogeneous sources into Snowflake RAW layer.
- Applied Star Schema modeling using Snowflake Views instead of physical tables to reduce storage cost while ensuring real-time data accuracy for downstream reporting.
- Created Fact and Dimension views in Snowflake to separate measurable business metrics from descriptive attributes, optimizing query performance for BI reporting.
- Delivered interactive Power BI dashboards connected to Snowflake via DirectQuery, providing end users with live business insights from integrated multi-source data.

EDUCATION

Bachelor of Science in Computer Science (BSc CS)

Anugraha Institute of Social Sciences, Madurai Kamaraj University | 2023 – 2026