

Pawan Ajitkumar Jadhav

Boston, MA | 914-267-5356 | pawan.jadhav7@gmail.com | [linkedin](#)

Professional Summary

Results-driven Senior Database Developer with 10+ years in Oracle PL/SQL, Informatica (IICS), and scheduling (Airflow, Control-M) across healthcare and financial systems. Built HIPAA-compliant, multi-terabyte cloud data platforms on **AWS & Snowflake**—**S3/Glue/DMS** ingestion to **Snowpipe** with **Streams/Tasks**—implementing **RBAC/masking**, **KMS** encryption, and cost governance (auto-suspend, Resource Monitors). Proven expertise in designing and optimizing high-performance ELT/ETL pipelines, query tuning and database design, and CI/CD with GitHub—delivering reliable, scalable, and secure enterprise analytics solutions.

Core Competencies

Database Development: Oracle PL/SQL, SQL Server, Stored Procedures, **Query Optimization**, Indexing, **Performance Tuning**

ETL & Integration: Informatica PowerCenter, **Informatica IICS**, **Control-M**, SSIS, Data Mapping, CDC

Automation & Scripting: Python, Shell Scripting, Batch Processing, Workflow Automation

Data Architecture: Schema Design, **Data Modeling (Star/Snowflake)**, Data Lineage, Metadata Management

Analytics & BI: **Power BI**, **Tableau**, Excel Dashboards, Audit & Compliance Reporting

Cloud & Platforms: **AWS (RDS, S3, Glue)**, **Snowflake**, **Azure Data Factory**, **Databricks**

Governance & Quality: **Data Profiling**, Validation, Error Handling, Reconciliation, Audit Readiness

Professional Experience

Senior Database Developer | eSystems Inc (DHS Arkansas) *Boston, MA | May 2024 – May 2025*

- Led **migration of Oracle workloads to AWS**, designing landing/processing zones in Amazon S3 and orchestrating batch/near-real-time ingestion with AWS Glue and Informatica IICS.
 - Stood up Snowflake environments (dev/test/prod) with databases, schemas, and RBAC; established **zero-copy clones for release testing and data validation**.
 - **Built ELT pipelines from S3 to Snowflake using external stages**, Snowpipe, and streams & tasks; implemented audit columns, CDC handling, and idempotent reruns for Medicaid/SNAP datasets.
 - Modeled conformed dimensions and fact tables; optimized with clustering (where beneficial), result caching, and warehouse scaling patterns aligned to workload profiles.
 - Implemented security controls for HIPAA compliance: **KMS encryption on S3 buckets**, private S3 endpoints, Snowflake network policies, and masking policies for sensitive attributes.
 - Established cost and performance guardrails with Snowflake Resource Monitors, auto-suspend/resume, and query profiling; reduced long-running report latencies and stabilized nightly loads.
 - Automated **monitoring and runbooks with CloudWatch alarms**, Glue job notifications, and Snowflake account usage queries; produced operational dashboards for SLA tracking and audits.
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Senior Database Engineer | Kgate Technologies Inc *Boston, MA | Mar 2024 – Sept 2025*

- Built a cloud data platform on AWS with raw curated zones in Amazon S3, using AWS Glue (PySpark) jobs and crawlers for schema discovery and Parquet optimization; cataloged datasets for downstream analytics.
- Landed near real-time CDC from on-prem/OLTP sources to S3 using AWS Database Migration Service (DMS); implemented checkpoints, error queues, and automated retries.
- Delivered **dimensional models in Snowflake (star/snowflake)** with streams & tasks for incremental ELT, MERGE-based upserts (SCD Type 1/2), and time travel for recovery/validation.

- Created **external stages (S3) and Snowpipe for event-driven ingestion**; secured with AWS IAM role-based storage integrations and KMS encryption of data at rest.
- Tuned **query performance via clustering keys/micro-partition pruning**, statistics maintenance, and warehouse right-sizing with auto-suspend/resume; established Resource Monitors for spend controls.
- Integrated Databricks transformations with Snowflake Connector for Spark to load curated datasets; validated row counts and business rules with reconciliation frameworks.
- Implemented operational telemetry **using Amazon CloudWatch, Glue job metrics**, and Snowflake account usage views; published SLA dashboards and alerting for data freshness and failures.
- Collaborated with governance teams to enforce RBAC, masking policies, and row access policies for HIPAA/PHI datasets, documented lineage and ownership for data domains.

SQL Developer | VCity Technologies Pvt Ltd Pune, India | Oct 2016 – Feb 2022

- Implemented **S3 Snowflake ingestion using external stages, file formats, and COPY INTO**; later migrated to Snowpipe for event-driven loads with IAM storage integrations and KMS encryption.
- **Developed ELT transformations with Snowflake SQL**, Streams & Tasks, and stored procedures (Snowflake Scripting) to deliver conformed dimensions and fact tables; standardized SCD Type 1/2 using MERGE.
- Modeled star/snowflake schemas for analytics and reporting; authored data validation and reconciliation queries to ensure completeness and accuracy.
- Tuned performance via micro-partition pruning, targeted clustering (where beneficial), warehouse right-sizing with auto-suspend/resume, and result cache utilization.
- **Orchestrated end-to-end pipelines with Control-M/Airflow** and integrated GitHub CI/CD for versioned DDL/DML and IICS assets; enabled safe, repeatable releases.
- **Implemented RBAC, masking policies, and network policies to protect PII/PHI**; generated audit artifacts using Account Usage and Access History views for compliance.
- Built operational runbooks for backfills and idempotent reprocessing leveraging time travel and staged reload patterns; added load error handling and notifications.

Associate Consultant | Datamatics Software Solutions Mumbai, India | Nov 2012 – Aug 2016

- Developed **Informatica ETL mappings and PL/SQL programs** to automate financial and insurance data reporting.
- Created validation checks and data quality reports, reducing manual errors by **25%**.
- Automated Control-M workflows for data refresh and reporting schedules, improving turnaround efficiency.
- Assisted in system optimization by tuning slow-running queries and re-indexing large tables.

Associate Programmer | TechExcel Software Solutions Mumbai, India | Nov 2010 – Sept 2012

- Developed SQL reports and PL/SQL scripts supporting operational and financial applications.
- Implemented Control-M automation for daily report generation and validation processes.
- Optimized stored procedures and views for improved query performance and system reliability.

Education & Certifications

Boston University – M.S. in Computer Information Systems (Data Warehousing & Analytics)

University of Mumbai – B.E. in Computer Engineering

Certifications: Project Management Professional | Microsoft Azure Associate Data Engineer | HIPAA Certified