**Raja R**

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Role : Sr Snowflake Consultant/Architect, Sr ETL/ELT Developer, Senior Data Engineer

**Career Summary**

* 15 years of IT experience in Data Warehousing/Data Integration application full life cycle implementations including analysis, design, development, testing, deployment, post-production support/maintenance/change request management, documentation, and end-user training.
* 12 years of experience in IBM DataStage ETL tool and used to build DWH projects.
* Having 6 plus years of experience on Hadoop system migration from old DWH projects.
* Having 4 plus years of experience in cloud technologies like AWS RDS, S3, SNS, SQS, Lambda functions, Snowflake cloud Datawarehouse, and Cloud Data-lake projects.
* 3 years of experience in Matillion ELT/ETL tool, Data Build Tool (DBT) Core, DBT Cloud and used for migrating old DWHs to Snowflake CDW (Cloud Data Warehouse) or CDL (Cloud Data-Lake).
* Good exposure on DWH migration projects like db2 to Teradata, Teradata to Hadoop, DataStage to Ab-initio, DataStage to Hive SQL scripts, DataStage to Matillion on Snowflake CDW/CDL, Informatica to Matillion on Snowflake CDW/CDL.
* Strong work experience on Cloud computing, Cloud analytical databases architectures, Massive parallel processing databases like Snowflake.
* Experience in Data integration using modern data warehousing tools like **Snowflake**, **Matillion**, Data Build Tool (**DBT**) core, DBT cloud, IBM DataStage, Informatica Power Center, Fivetran, SnapLogic and AWS Glue.
* Good understanding of Snowflake Cloud technology, Snowflake multi-cluster and credit usage.
* Hands-on experience in bulk data loading and unloading data into/from Snowflake tables using COPY command from AWS S3, and Azure blob storage.
* Experience in extracting JSON file data, flattening, performing data profiling, and transforming JSON data to the required format and loading to Snowflake tables for business reporting.
* Developed the Snow SQL scripts to load the final core tables from the staging tables.
* Unit tested and performed the data quality checks and determined the frequency distribution of the tables loaded to Snowflake, validated them with the tables of on-premises databases like Oracle/Netezza/Postgres/Db2/iSeries.
* Experience in re-architecting existing databases for performance and scalability.
* Experience in performance tuning of Snow SQL queries.
* Experience in using Snowflake clone, time travel, and Data sharing in Snowflake.
* Scheduled all the staging, intermediate and final core tables loading through Snowflake tasks.
* Knowledge on Stored Procedures in Snowflake Scripting, UDF’s, Snow Pipe, Streams, and Tasks
* learning “Snowflake Stored Procedures - Python (using Snowpark)”, Resource Monitors, RBAC and AWS Lambda functions with boto3.
* Learning “Azure Databrics (Delta Lake, Spark SQL, Spark Streaming and PySpark).
* Strong work experience on Cloud ELT/ETL like Matillion and a good understanding of Matillion architecture, designed ETL/ELT data pipelines in the Matillion tool and built the Snowflake CDW.
* Migrating Informatica workflows/DataStage jobs, and stored procedures to Matillion ETL/ELT jobs, and demising the corresponding databases in Netezza, Postgres, IBM Db2, iSeries, and Oracle.
* Used Matillion components like S3load, S3Unload, SQL Script, Database Query, RDS Stage, Data Transfer, Query Result to Scalar, Calculator, Detect Changes, Extract Nested Data, Flatten Variant, Python, Shell, etc.
* Experience in extracting JSON file data, flattening, performing data profiling, and transforming JSON data to the required format and loading to Snowflake tables using Matillion ELT.
* Matillion internal GIT versioning option is used for merging the code to the GIT master.
* Developed Matillion custom template jobs to optimize data loading and incremental updates.
* Orchestration jobs are scheduled through Matillion scheduling page and loading all layers (Staging, Landing, ODS, Dimensions and Fact tables) of Snowflake tables.
* Created Orchestration job which will trigger other jobs through SQS calls through SQS page setup.
* Experience designing and developing data integration solutions using DBT (Data Built Tool) cloud.
* Building and maintaining custom transformation pipelines within cloud data warehouse using DBT.
* Building all transformation workflows using DBT cloud.
* Experienced in Data Vault 2.0, IBM Enterprise Data warehousing solution framework, Dimensional Data Modeling, and understanding the ER Modeling, entities, relationships, and 3NF.
* Experienced in Conceptional Data Modeling, Logical Data Modeling and Physical Data Modeling.
* Worked closely with the System Architect, Business Analysts, Data Management director, product manager, and Architect of the Business Rules Engine.
* Worked on maintaining code versioning and integrity using GitHub.
* Familiarity with Jenkins, Continuous Integration, Continuous Deployment Pipelines.
* Good Experience in ETL/ELT Process automation using Shell/Python Programming.
* Working as Agile POD lead and technical lead and having experience in Agile developments procedures.
* Lead the team on migrating applications from Hadoop data lake to Snowflake cloud platform.

**Professional Experience**:

* Worked as Senior Consultant Specialist for HSBC Technology India, Hyderabad, India from Mar 2008 to Nov 2021 (4.2 years onsite in Sheffield, UK).
* Currently working as Senior Data Engineer for MiniSoft Technologies LLC, Houston, Texas from Feb 2022.

**Educational Qualification**

* **Master of Science** from S V University, Andhra Pradesh, India, 2011.
* **Bachelor of Science** from Andhra University, Andhra Pradesh, India, 2000.

**Technical Skills**

Databases : Snowflake CDW (Cloud Data Warehouse), Oracle, DB2, I-Series, Netezza, Postgres

ETL Tools : IBM DataStage, Informatica Power Center, Matillion ETL/ELT, Snowflake ELT Scripts, Data Build Tool (DBT) Core, DBT Cloud, Fivetran, SnapLogic, AWS Glue.

Scheduling Tool : Control-M, AutoSys, HWA, Cron Jobs, Matillion Scheduler

Programming : UNIX shell Scripting, Python

BigData Tools : Hadoop, HDFS, Hive HQL Scripts

Cloud Technologies : Snowflake, Matillion ETL/ELT, AWS S3, RDS, SNS, SQS and Lambda

Replication Tools : HVR Software Replication, IBM CDC Replication, Attunity (Qlik) Replicate.

Tools and Utilities : Quality Center, Jira, Confluence, MS SharePoint, GitHub, Jenkins, Nexus.

Data Modeling : Data Vault 2.0, IBM Enterprise Data warehousing solution framework, Dimensional Data Modeling.

Reporting Tool : Basics of Tableau, Power BI, Qlik Sense, OWS

Methodologies : Waterfall Model, Agile SCRUM

**My Current Project is:**

Project Name : SmartTruck

Employer : MiniSoft Technologies LLC, Houston, Texas, USA

Client : Waste Management National Services Inc, Houston, Texas, USA

Role : Senior Snowflake Developer, Matillion ETL/ELT Developer, Senior Data Engineer

Duration : Feb 2022 to still now.

Environment: Snowflake CDW on AWS, Matillion ELT/ETL, Data Build Tool (DBT) Cloud, AWS RDS, SNS,

SQS,Lambda, Glacier, API Gateway, Attunity CDC (Qlik), 3rd Eye API, Informatica Power Center, Python,

Oracle, Postgres, Netezza, DB2 I-series, Universe DB, AxWay, Okta, Power BI, ML Models, Confluence,

Jira, GIT Hub, Jenkins.

**Project Description:**

SmartTruck project is initiated for Power BI report automation process and migrating to new technologies like Snowflake, Matillion ETL/ELT, DBT cloud, AWS Lambda functions with boto3, AWS S3, SNS, SQS and Glue. Phase by phase decommissioning the old systems like Informatica workflows, Netezza, Oracle, Postgres, Db2, AWS RDS systems. Responsible for building Snowflake data warehouse on AWS cloud platform using Matillion ETL/ELT tool to Extract Load and Transform data pipelines. Working on Digital Transformation initiatives, Customer Adoption and Setup Automation engagements, collaborating with Waste Management Business and Technical stakeholders to transform ideas into high value business outcomes.

**Responsibilities:**

* Review the architectural/technological solutions for current project and ensure the right choice of solution.
* Experience with gathering end user requirements and fitting them into current architecture.
* Taking ownership of technical solutions from design and architecture perspective of project.
* Suggest innovative solutions based on new technologies and latest trends.
* Designed ETL/ELT data pipelines in Matillion tool, DBT cloud and building the Snowflake CDW.
* Experience designing and developing data integration solutions using DBT (Data Built Tool) cloud.
* Building and maintaining custom transformation pipelines within cloud data warehouse using DBT.
* Building all transformation workflows using DBT cloud.
* Developed custom templates to optimize data loading and incremental updates.
* Design and implement strategies to build new data extraction, transformation, loading and quality frameworks to replace old systems and implement the cloud native cutting-edge technologies.
* Migrating Informatica workflows to Matillion ETL/ELT jobs, DBT cloud models and demising the corresponding databases in Netezza, Postgres, IBM iSeries, and Oracle.
* Knowledge on Stored Procedures in Snowflake Scripting, UDF’s, Snow pipe, Streams, and Tasks
* Identifying priority Jira’s and building the Matillion Jobs, DBT cloud models and Snowflake DDL scripts.
* Created Snowflake SQL Scripts, Matallion jobs, DBT cloud models supporting QA testing phases and supporting Production issues.
* Loading/unloading data from Snowflake database using copy command and Matillion ELT jobs.
* Experience in loading/unloading data into AWS-S3 bucket using amazonS3 plugin.
* Worked on Snowflake utilities like SnowSQL, Time travel and Data sharing.
* Experienced in extracting streaming JSON data, flattening, performing data profiling, and transforming JSON to Snowflake as required for the business reporting using Matillion ETL/ELT.
* Maintaining Confluence pages for Data Flow diagrams and development processes.
* Maintaining source and version control using GIT integration and tracking deployment through CI/CD processes.
* Involved in application full life cycle implementations including analysis, design, development, testing, deployment, post-production support/maintenance/ change request management, documentation, and end-user training.
* All layers of Snowflake tables are loaded and transformed as required by Matillion ETL tool,DBT cloud.

**Project # 06**

Project Names: NS LP OWS (Name Screening Landing Pad, Oracle Watch List Screening)

Client : Global Risk and Compliance, HSBC, Sheffield, UK.

Role : Technical Lead, Senior Snowflake Developer, Matillion ETL Developer, DBT (Data Built Tool)

Duration : Jul ’2018 to Jan 2022.

Environment: Snowflake Cloud DWH on AWS, Matillion ETL, DBT (Data Built Tool), Data Stage 11.3/7,

Python, Hive Tables, HVR Software Replication, OGG Replication, IBM CDC Replication, Attunity CDC(Qlik),

Oracle, Red hat Linux, OWS, Oracle EDQ (Enterprise Data Quality), OWS (Oracle Watch List Screening),

Control-M, Confluence, Jira, Nexus, GIT Hub, Jenkins.

**Project Description:**

Sanctions control framework is the screening of customers for Sanctions Risk, to ensure that the bank is not doing business with sanctioned individuals or entities, or in sanctioned countries. As data is reviewed and transformed within the NS LP staging area, it will be sent onwards to the Reporting layers and OWS environment for subsequent analysis and reporting.

**Responsibilities:**

* Drafting IDR’s (Internal Design Report) and Overview documents of newly onboarding feeds.
* Attending the different analysis meetings with application Owners, data analysts, architects, DBA’s, Business Analysts, source system teams, change management team, procurement teams, APS teams (Application Production Support) which will help us to understand the requirements and queries of developers and other activities as part of production deployment.
* Created Snowflake SQL Scripts, Matillion jobs, DBT models, Unix scripts, Python scripts, DataStage jobs, Control-m drafts and reduced process run window time.
* Experience in loading/unloading data into AWS-S3 bucket using amazonS3 plugin.
* Loading/unloading data into/from Snowflake database using copy command and Matillion ELT jobs.
* Worked on Snowflake utilities like SnowSQL, Time travel and Data sharing.
* Experienced in extracting streaming JSON data, flattening, performing data profiling, and transforming JSON to Snowflake as required for the business reporting using SnowSQL.
* Created Snow pipe for continuous data load and used copy command for bulk data load.
* Monitoring the statistics of Credit usage, computing usage, storage usage and removing the staged files from internal stages, external stages and truncating the staging transient tables.
* All layers of Snowflake tables are loaded and transformed as required by Matillion ETL/ELT tool, DBT models.
* Experience designing and developing data integration solutions using DBT (Data Built Tool).
* Building and maintaining custom transformation pipelines within cloud data warehouse using DBT.
* Building all transformation workflows using DBT.
* Unique experience in re-architecting existing databases for performance and scalability.
* Ensuring code reusability, restart ability of jobs and following the best practice for better code.
* Using HVR software and Attunity/Qlik for the replication process.
* Reviewed SnowSQL Scripts, Matillion Jobs, Shell scripts, Python Scripts, Data Stage Jobs of team, identified peer review comments, following best practices to improve the coding standards.
* As an Agile POD lead, conducting daily stand-ups (Scrum meetings) and prioritizing the tasks based on request from respective CR’s and Jira’s.
* Onboarding new team members and conducting KT sessions as per the requirement.
* Leading, Monitoring, and guiding the team members.

**Project # 05**

Project Name : CDP (Customer Data Platforms), UCM (Unified Case Management), FIPL (Financial Intelligence Platforms)

Client : Global Risk and Compliance, HSBC, Sheffield, UK.

Role : Technical Lead, Agile POD Lead, Senior Developer.

Duration : Feb 2016 to Jun 2018 (1 year in Sheffield, UK).

Environment : Data Stage 11.1, Ab-Initio 2.3.4, Hortonworks Hadoop Cluster, Hive, Sqoop, Oozie, Red hat Linux, Control-M

Project Description:

CDP & COPS will capture and store multiple source system data in a scalable data store and will allow for effective reporting, auditing, and analytics of this data, as well as extraction, validation, and formatting of data for target system use. As data is reviewed and transformed within the CDP and UCM staging area it will be sent onwards to the CDP/UCM QlikView environment for subsequent analysis and reporting.

Responsibilities:

* Drafting IDR’s (Internal Design Report) and Overview documents.
* Created Unix scripts, DataStage jobs, Control-m drafts, and reduced process window time.
* Involved in application development and full life cycle implementations including analysis, design, development, testing, deployment, post-production support/maintenance/ change request management, documentation, and end-user training.
* Unique experience in re-architecting existing databases for performance and scalability.
* Ensuring code reusability, restart ability of jobs and following the best practice for better code.
* To understand and gather the requirements, attend different meetings with stakeholders and application owners of different systems and programs.
* Attending the different analysis meetings with application Owners, data analysts, architects, DBA’s, Business Analysts, source system teams, change management team, procurement teams, APS teams (Application Production Support) which will help us to understand the requirements and queries of developers and other activities as part of production deployment.
* As an Agile POD lead, conducting daily stand-ups (Scrum meetings) and prioritizing the tasks based on request from respective CR’s and Jira’s.

**Project # 04:**

Project Name : DRR (Daily Risk Reporting), LDW (Lost Data Warehouse)

Client : Global Risk and Compliance, HSBC, Sheffield, UK.

Role : Technical Lead, ETL Developer, Shell Script Developer

Duration : Mar 2014 to Jan 2016 (1 year in Sheffield, UK).

Environment : Data Stage 8.5, DB2 V 9.1 fix pack 4, IBM AIX 5.2, Control-M.

Project Description:

Global Credit Loss Data Warehouse (GCLDW) is a Group credit loss data repository for EAD, LGD model build and validation purposes. As data is reviewed and transformed within the GCLDS Staging area i.e., extract tables, extract files will be shared to Business for subsequent analysis and reporting.

Responsibilities:

* Drafting IDR’s (Internal Design Report) and Overview documents.
* Created Unix scripts, DataStage jobs, Control-m drafts, and reduced process window time.
* Involved in application development and full life cycle implementations including analysis, design, development, testing, deployment, post-production support/maintenance/ change request management, documentation, and end-user training.
* Ensuring code reusability, restart ability of jobs and following the best practice for better code.
* To understand and gather the requirements, attend different meetings with stakeholders and application owners of different systems and programs.
* Attending the different analysis meetings with application Owners, data analysts, architects, DBA’s, Business Analysts, source system teams, change management team, procurement teams, APS teams (Application Production Support) which will help us to understand the requirements and queries of developers and other activities as part of production deployment.

**Project # 03:**

Project Name : MI Actual (Management Information Actual).

Client : GMO Finance, HSBC, Sheffield, UK.

Role : Technical Lead, ETL Developer, Shell Script Developer

Duration : Oct 2011 to Feb 2014. (2.2 years in Sheffield, UK)

Environment : Data Stage 8.5, DB2 V 9.1 fix pack 4, IBM AIX 5.2, Control-M.

Project Description:

Data will be collected from sites and stored in a central staging area. Data will be transmitted securely using appropriate HSBC I.T. Security approved protocols. As data is reviewed and transformed within the MI Actual staging area and it will be sent onwards to the MI Actual TM1 environment for subsequent analysis.

Responsibilities:

* Drafting IDR’s (Internal Design Report) and Overview documents.
* Created Unix scripts, DataStage jobs, Control-m drafts and reduced process window time.
* Involved in application development and full life cycle implementations including analysis, design, development, testing, deployment, post-production support/maintenance/ change request management, documentation, and end-user training.
* Ensuring code reusability, restart ability of jobs and following the best practice for better code.
* To understand and gather the requirements, attend different meetings with stakeholders and application owners of different systems and programs.
* Attending the different analysis meetings with application Owners, data analysts, architects, DBA’s, Business Analysts, source system teams, change management team, procurement teams, APS teams (Application Production Support) which will help us to understand the requirements and queries of developers and other activities as part of production deployment.

**Project # 02:**

Project Name : OHBI Global Analytics

Client : Software House Canada HSBC.

Role : Module Lead, ETL Developer, ETL System Tester, Shell Script Developer

Duration : Jan 2010 to Sep 2011.

Environment : Data Stage 7.5.1/8.1, DB2 V 9.1 fix pack 4, IBM AIX 5.2, Control–M, Windows XP.

Project Description :

One HSBC Business Intelligence (OHBI) GA (Global Analytics) is established to define and implement standard data management processes, common information infrastructure and an aligned analytical and information management. Extract and retain monthly full files from the source systems to populate month-end tables and it will be sent onwards for subsequent analysis and reporting.

Responsibilities:

* Drafting IDR’s (Internal Design Report) and Overview documents.
* Created Unix scripts, DataStage jobs, Control-m drafts, and reduced process window time.
* Involved in application development and full life cycle implementations including analysis, design, development, testing, deployment, post-production support/maintenance/ change request management, documentation, and end-user training.
* Ensuring code reusability, restart ability of jobs and following the best practice for better code.
* To understand and gather the requirements, attend different meetings with stakeholders and application owners of different systems and programs.
* Attending the different analysis meetings with application Owners, data analysts, architects, DBA’s, Business Analysts, source system teams, change management team, procurement teams, APS teams (Application Production Support) which will help us to understand the requirements and queries of developers and other activities as part of production deployment.

**Project # 01:**

Project Name : Callidus INM

Client : HSBC INM Mumbai

Role : ETL Developer, Shell Script Developer

Duration : Mar 2008 to Dec 2009.

Environment : Data Stage 7.5.1, TrueComp Compensation Tool, Oracle 9i, Windows XP, IBM AIX

Project Description:

True Comp tool from Callidus - Enterprise Incentive Management (EIM) writes compensation rules and plans. Using Data stage, we extract data from flat files and Oracle database, transforming the data in required format and loading the data into True Comp Landing Pad Tables.

Responsibilities:

* Drafting IDR’s (Internal Design Report) and Overview documents.
* Created Unix scripts, DataStage jobs, Control-m drafts, and reduced process window time.
* Involved in application development and full life cycle implementations including analysis, design, development, testing, deployment, post-production support/maintenance/ change request management, documentation, and end-user training.
* Ensuring code reusability, restart ability of jobs and following the best practice for better code.
* To understand and gather the requirements, attend different meetings with stakeholders and application owners of different systems and programs.