

Vijayalakshmi

Sr. Data Engineer at Fractal Analytics

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Professional Summary:

7.5 years of experience in designing and building end to end data engineering frameworks in areas of Medical Technology, Healthcare and Retail domains using tools/technologies like: Talend, Snowflake, Databricks, AWS S3, Redshift, Lambda and EC2 Instances, Oracle etc.

- Good exposure working on different roles in data analytics project like designing frameworks, data flow/ETL development and building visualizations.
- Strong experience of building Cloud Data warehouse using Talend, Snowflake capabilities and data lake using Databricks.
- Good knowledge on AWS services like RDS, S3, Redshift, Glue, Data Pipeline, Ec2 and AWS Lambda.
- Worked on AWS S3 for the cloud storage to achieve datalake from multiple data sources and processed data to Amazon Redshift for Data warehouse using Talend.
- Designed and implemented Audit, Control and Test frameworks.
- Possess strong commitment to team environment dynamics with the ability to contribute expertise.

Technical Skills :

- **Databases:** Snowflake, Amazon Redshift, MySQL, Oracle, Informix
- **Cloud Platform:** AWS
- **ETL tools:** Talend Data Integration, Cognos Data Manager
- **Reporting tools:** Cognos, Tableau
- **Scripting/Programming:** SQL, Python, Scala (Beginner)
- **Analytical Area:** Business Insights, Data Extraction, and manipulation

Domains :

- Medical Technology
- Healthcare
- Retail

Projects Summary:

Fractal Analytics, Sr. Data Engineer

ELVIS: Elevate the business decision by data. This project harnesses the data from various sources and enable insights to business timely to make impactful decision using data.

Metadata framework along with the processor engines deployed as micro services coordinate the activities for data extraction, data processing, streaming, and loading it to respective targets

This Data integration Framework is robust, scalable, metadata driven framework which can process data from 10+ source platforms using a single data flow. Data processing is enabled for File, API and Stream sources

Environment: Databricks, SparkSQL, Snowflake, Talend, AWS S3, Attunity, Kafka

Roles and Responsibilities:

- Requirement analysis of the DE framework.
 - Developed Talend jobs that can process data from Database(MySQL, Informix, Teradata), Files, API and Stream sources
 - Worked on analysing the functionality of the data and linkage between master and transaction data. Worked on Reconciliation of different source system data between each layer in the DW.
 - Single talend data flow can handle any number of source objects by configuring job metadata
 - Implemented Audit framework and testing strategy for the CICD pipeline of ELVIS
 - Built a Scheduler job that handles sequential, parallel, and dependent types of scheduling
 - Performance tuning of queries and Jobs – cluster tuning to improve performance
 - Delivered high-end knowledge base for the framework
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Decision Resources Group (DRG) Data Engineer

Silverstone: This project combined data from different MedTech platforms into single data warehouse. It helped in analysing data from all MedTech projects and generate new reports, which are sold as products to clients

Environment: Snowflake, Talend

Roles and Responsibilities:

- Understanding all projects of MedTech platform and preparing Data warehouse model.
 - Implement the model in Data warehouse and created DataMart's for individual projects.
 - Providing input structure/format to all BA for master tables as per the model.
 - Loading master's data into Snowflake with the ETL(Talend) process.
 - Documentation of every step from model to till load part in confluence.
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EU ProcedureFinder: EU ProcedureFinder is a commercial targeting solution based on coded procedure/diagnosis volumes at different granularity level like nation/region/facility level.

Environment: Mysql, Snowflake, Talend, Python

Roles and Responsibilities:

- Preparing and implementing the model in snowflake.
 - Automating the complete process from using Talend and Python to load data from Mysql into snowflake.
 - Preparing required functions, procedures and views for BA to process it.
 - Documentation of the project with model and steps to execute the process in confluence.
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US ProcedureFinder To Snowflake: Migration project of converting existing stored procedures to SnowSQL queries/procedures with some additional features included. Talend is used for transformations.

Environment: Talend, Snowflake

Roles and Responsibilities:

- Created new Database & tables with normalized from in a Snowflake data warehouse.
 - Collected the requirements from BA and Providing POC on that.
 - Wrote ETL jobs in Talend from loading data into normalized tables and Calculating required NT and IP OP of all hospitals using procedure Codes as parameter and using RWD data of different datasets (CMS, Falcon and Healthbase data).
 - Improved the efficiency and code quality by eliminating stored procedures and used a single query using CTE and brought all required datasets and calculated National Totals, and even combined multiple functions into single function.
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TATA Consultancy Services (TCS) Systems Engineer

Indonesia Consumer DnA: Data Warehouse migration project, data present in SQL server is migrated to cloud (AWS) platform.

Tools/Environment: Talend Data Integration, Amazon Redshift, Core Java ,Amazon S3, Tableau.

Roles and Responsibilities:

- Developed Metadata driven ETL model, where data from 50+ distributors in around 26 file formats was integrated to load data to Amazon S3 and finally to Redshift tables.
 - Worked as Tableau report developer for the same. Have created multiple dashboards for sales, implementing the best practices recommended by Tableau.
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Depuy Synthes Integration (DSI) : Union of Synthes business unit data with the existing data flow. Source for Synthes data being SAP, flows through Data Manager ETL and gets loaded in regional data warehouse tables.

- Data from tables is modelled at Cognos Framework manager level for reports and at Transformer level for cubes and finally available in reports and cubes for business analysis.

Tools/Environment: IBM Cognos Reporting, Framework Manager, Oracle 11g, SQL, Data Manager

Education:

- B.Tech in Electronics and Communication, Jawaharlal Nehru National Institute of technology, Shimoga Karnataka

Personal Details:

Date of birth : 6th October 1992

Gender : Female

Father's name : Shivalinge Gowda

Mother's name : Parvathamma

Languages Known : Fluent in English, Kannada and Hindi.

Present Address : 21/A, Sakkare, 2nd floor, 60' Road, M.P.M layout, Mallathalli, Nagarabhavi, Bangalore, 560056

Permanent Address : HF 19, Hutha Colony, Bhadravathi, Shimoga, Karnataka.

I hereby declared that the above-mentioned information is correct and true to best of my Knowledge.

Date:

Place: Bengaluru