Reethu Paravada

# Apex, NC, USA | +1 203-842-8899 Email: [Vamshi@cynort.com](mailto:Vamshi@cynort.com)

**PROFESSIONAL****SUMMARY***:*

* 7+ years of strong IT experience in the field of Data analysis, ETL Development, Data Modelling, and Project Management with experience in Big Data and related Hadoop technologies.
* Strong experience in Business and python, Data Analysis, Data Profiling, Data Migration, Data Conversion, Data Quality, Data Integration.
* Strong experience in Data Modelling with expertise in creating Star Snow-Flake Schemas, FACT and Dimensions Tables, Physical and Logical Data Modelling.
* Build SQL scripts, indexes, and complex queries for data analysis and extraction that provide database coding to support business applications using T-SQL.
* Hands on experience in creating tables and Normalization techniques on database Tables using T-SQL and SQL Server
* Worked on developing user-defined functions (UDF), stored procedures and triggers, views
* Knowledge on various Error Handling Techniques, CTEs, Merge statements using T-SQL
* Knowledge on Extracting data from Progress Database to SQL Server using drivers.
* Worked extensively on ETL process using MS SQL Server Integration Services (SSIS). Worked with various versions starting 2012, 2014, 2016.
* Excellent knowledge on development and deployment of SSIS packages from different sources like Microsoft SQL Server, flat file, CSV, XML, Oracle, Excel.
* Experience on creating and designing SSIS Packages using various Data Flow transformations like Fuzzy Grouping, Fuzzy Lookup, Aggregate Functions, Merge Join, Conditional Split, Data Conversion, Derived Colum
* Hands on experience in creating SSIS packages to load data using Various SSIS Tasks like Execute SQL Task, bulk insert task, data flow task, file system task, active script task, xml task
* Experience in developing Custom Reports, Parameterized reports and different types of Tabular, Matrix, Ad hoc reports and distributed reports in multiple formats using SQL Server Reporting Services (SSRS)
* Knowledge on work environment of Agile Methodologies, JIRA board and DFPT tickets.
* Ability to collaborate with peers in both, business, and technical areas, to deliver optimal business process solutions, in line with corporate priorities.
* Strong experience in interacting with stakeholders/customers, gathering requirements through interviews, workshops, and existing system documentation or procedures, defining business processes, identifying and analyzing risks using appropriate templates and analysis tools.
* Experience in various phases of Software Development life cycle Analysis, Requirements gathering, designing with expertise in documenting various requirement specifications, functional specifications, Test Plans, Source to Target mappings, SQL Joins.
* Experience in conducting Joint Application Development JAD sessions for requirements gathering, analysis, design and Rapid Application Development RAD sessions to converge early toward a design acceptable to the customer and feasible for the developers and to limit a project's exposure to the forces of change.
* Proficient in performance analysis, monitoring and SQL query tuning using EXPLAIN PLAN, Collect Statistics, Hints and SQL
* Hands on experience using applications like Microsoft SQL Server, SSIS, SSRS, Tableau.
* Experience in coding SQL/HQL using Procedures, Triggers and Packages.
* Good understanding of Relational Database Design, Data Warehouse/OLAP concepts and methodologies.
* Implemented Optimization techniques for better performance on the ETL side and on the database side.
* Excellent Communication, interpersonal, analytical skills and strong ability to perform in a team as well as individually.

# TECHNICAL SKILLS

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| ***Analytical Tools & Languages*** | Snowflake, SnowSQL, AWS S3, AWS GLUE, DBT, Informatica, TSQL, PL/SQL, Advanced Excel Databases: SQL server, MYSQL, Drools Query Language, HQL, Toad, Postman, UFT |
| ***Software*** | SSIS, SSMS, SSDT, Oracle SQL Developer, MS Project, Jira, Eclipse, SecureFX, SecureCRT, Git Desktop |
| ***Reporting Tools*** | SQL Server Reporting Services (SSRS), Tableau |
| ***Additional Skills*** | Database modelling, Dimensional modelling, Star and Snow Schema, Big Data, Visualization, Agile, Tableau ,SDLC, Requirement gathering and Project Management, Impact Analysis, GAP Analysis |
| ***Testing tools*** | TOSCA, SOAP UI |

# CERTIFICATIONS

# PROFESSIONAL EXPERIENCE

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## Responsibilities:

* Bulk loading from the external stage **(AWS S3)**, internal stage to snowflake cloud using the COPY command.
* Loading data into snowflake tables from the internal stage using **SnowSQL**.
* Developed Python scripts to establish a connection to Snowflake and manage the migration process.
* Used **COPY, LIST, PUT** and **GET** commands for validating the **internal stage files**.
* Used import and Export from the internal stage (snowflake) from the **external stage (AWS S3).**
* Writing complex **SnowSQL scripts** in snowflake cloud data warehouse to business analysis and reporting.
* Used **FLATTEN** table function to produce a lateral view of VARIANT, OBJECT, and ARRAY column.
* Used **SNOW PIPE** for continuous data ingestion from the S3 bucket.
* Developed snowflake procedures for executing branching and looping.
* Created clone objects to maintain **zero-copy cloning**.
* Data validations have been done through **information\_schema**.
* Executed queries to fetch and transform data from the source database using the Snowflake Connector for **Python**.
* Performed data quality issue analysis using SnowSQL by building analytical warehouses on Snowflake.
* Build the **logical** and **physical data models** for **Snowflake** as per the changes required.
* Experience with AWS cloud services: **EC2, S3, EMR, RDS, Athena,** and **Glue**.
* Cloned **Production data** for code modifications and testing.
* Perform troubleshooting analysis and resolution of critical issues.
* In-depth knowledge of the **Snowflake** database, schema, and table structure will be defined, as will **virtual warehouse** sizing for **Snowflake** for various types of workloads.
* Implemented parameterized queries for flexibility and efficiency in data extraction.
* Led the implementation of **dbt** **(data build tool)** for Snowflake, creating and maintaining **data models** that transformed raw data into meaningful, business-ready insights.
* Optimized **dbt models** and **Snowflake queries** for improved performance, reducing query execution times and enhancing overall system efficiency.
* Utilized **dbt's version control** features to manage and track changes to **data models** over time.
* Implemented **indexing strategies**, **optimized SQL queries**, and leveraged **clustering** features to enhance overall migration speed.
* Modeled **data vault** core business concepts as Hubs, relationships as Links, and attributes as Satellites in alignment with business requirements.
* Created database **tables** for **Hubs**, **Links**, and **Satellites**, establishing primary and foreign key relationships.
* Designed and implemented Extract, Transform, Load **(ETL) processes** to populate **Data Vault**, ensuring accurate and efficient data flow.
* Monitored and tracked issues within the team using JIRA and working application in **Agile** methodology with SCRUM meetings.
* Developed **ETL** pipelines in **SSIS** to migrate data from legacy systems to data warehouse and implemented Physical data models including partitioning and indexing to optimize data processing and querying.
* Demonstrated expertise in performance tuning and optimization of **SSIS** packages, employing best practices to enhance overall data integration performance and minimize processing times for large datasets.
* Collaborated with cross functional teams including Community Partners (Mass health), ACO’s and SME’s to gather requirements on projects and performed analysis using SQL, SSIS, SSRS and Tableau
* Implemented Installation and configuration of the multi-node cluster on Cloud using **Amazon Web Services** (AWS) on **EC2**.
* Currently working in Agile, Scrum, stand up meetings, Sprints, Backlog grooming sessions. Optimized SSIS Packages. Reverse engineering and prepared documentation.
* Designed packages which utilized tasks and transformations such as Execute SQL Task, DQS, Fuzzy Lookup, CDC Splitter, Data Flow Task, Sequence Container, For Each Loop Container, Lookup, Aggregate, Expression, OLE DB Command and Derived Column.
* Deployed SSIS projects to the Integration Services catalogue and configured those using Parameters.
* Involved in complete SSIS Life Cycle - creating SSIS packages, building, testing, deploying and executing.
* Worked on **Change data capture** (CDC) control task in **Snowflake**.
* Deployed and uploaded the **SSRS** reports to **SharePoint** Server for the end users and involved in enhancements and modifications.
* Scheduled and orchestrated regular **dbt runs** to update and refresh data models in Snowflake, automating the data transformation processes and maintaining up-to-date analytics
* Ensure that models conform to established best practices including normalization rules and accommodate change in a cost-effective and timely manner.

**Environment**: Snowflake, SnowSQL,TSQL, Tableau, Microsoft Excel, SSIS, SSRS, SSAS, MS Project, SQL, PL/SQL, JIRA, Postman, Soap UI

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* Create new mapping designs using various tools in **Snowflake**.
* Develop the mappings using needed Transformations in Snowflake according to technical specifications
* Developed SQL queries in SnowSQL.
* Developed mappings/sessions using Snowflake for data loading.
* Performed data manipulations using various Snowflake transformations like Filter, Expression, Aggregate, Joiner, Router, Sorter and Union.
* Developed Workflow using task developer, Worklet designer and workflow designer in Workflow manager and monitored the results using workflow monitor.
* Building Reports according to user requirements.
* Eperience in using **Snowflake clone** and **time travel**.
* Implemented **slowly changing dimension** methodology for accessing the full history of accounts.
* Experience with **Snowflake Multi cluster** virtual warehouses.
* Optimizing performance tuning at source, target, mapping and session level
* Participated in weekly status meetings, conducted internal and external reviews as well as formal walk-throughs among various teams and documented the proceedings.

**Environment**: Snowflake, SnowSQL,TSQL, Tableau, Microsoft Excel, SSIS, SSRS, SSAS, MS Project, SQL, PL/SQL, JIRA, Postman, Soap UI



## Responsibilities:

* Expertise in **identifying** and **analyzing** the business need of the end-users and building the project plan to translate the functional requirements into the technical task that guide the execution of the project.
* Evaluate **Snowflake design** considerations for any change in the application.
* Eperience in using **Snowflake clone** and **time travel**.
* Implemented **slowly changing dimension** methodology for accessing the full history of accounts.
* Experience with **Snowflake Multi cluster** virtual warehouses.
* Involved in Design, analysis, Implementation, Testing, and support of ETL processes for Stage, ODS, and Mart.
* Served as a liaison between third-party vendors, business owners, and the technical team.
* Proven ability in communicating highly technical content to non-technical people.
* Prepared ETL standards, naming conventions and wrote ETL flow documentation for **Stage**, **ODS**, and **Mart**.
* Designed and developed **Informatica's Mappings** and **Sessions** based on business user requirements and business rules to load data from diverse sources such as source flat files and oracle tables to target tables.
* Worked on various kinds of transformations like **Expression, Aggregator, Stored Procedure, Java, Lookup, Filter, Joiner, Rank, Router,** and **Update Strategy**.
* Developed reusable **Mapplets** and **Transformations**. Used debugger to debug mappings to gain troubleshooting information about data and error conditions.
* Involved in monitoring the workflows and in optimizing the load times. Used **Change Data Capture** (CDC) to simplify ETL in data warehouse applications.
* Involved in writing **procedures, functions** in SQL.
* Expertise in automation testing tools like TOSCA, ITAS.
* Developed test automation Framework to drive 300+ automated test cases.
* Brought about several key improvements in the automation framework which allowed for 40%-time reduction in quality releases.
* Worked with pmcmd to interact with **Informatica Server** from command mode.
* Created **parameter files**, **mapping variables** to enhance the ETL performance.
* Used Workflow Manager for creating, validating, testing and running the sequential and concurrent sessions and scheduling them to run at specified time and as well to read data from different sources and write it to target databases.
* Develop and migrate code, track and support the projects in all project life cycle.
* Worked on **ETL** support issues extensively to fix the production issues.
* Tuned **sources**, **targets**, **mappings** and **sessions** to improve the performance of data load into SQL server database.
* Tested all Mappings, Sessions and Workflows for **Data accuracy**.
* Created deployment groups and deployed workflow from one environment to other.
* Worked with **Backend testing**, **writing complex SQL queries** to verify the transactions and business logic.
* Worked with some administration tasks like creating a user, assigning the privileges and creating integration services using admin console.
* Involved in implementing the **Hot Fix 14** for the server and client and tested the application.
* Involved in testing the **Informatica mappings** using the test data and upgraded the QA Test Plans.
* Testing and validating the data on target data system and fixed the error codes on target data. Performed database
* Health checks and tuned the databases using Teradata Manager.

**Environment**: Informatica Power Center 8.6.1/9.x, Oracle 10g, SQL server 2005 &amp;2008, PL/ SQL, SQL\*Plus, Windows NT, Unix Shell Scripting, Erwin 4, TOSCA.

***SAN Information Technology Solutions, Hyderabad (India)***

***Role: Data Engineer***

***Mar 2016 – Jan 2018***

## Responsibilities:

* Involved in designing and developing **SQL server** objects such as Tables, Views, Indexes (Clustered and Non-
* Clustered), Stored Procedures and Functions in Transact-SQL.
* Developed **ETL pipelines** in SSIS to integrate source data into the staging layer, transforming it and loading the data into data warehouse
* Developed **stored procedures** in SQL Server to standardize **DML** transactions such as insert, update, delete from
* database
* Improved system issues in **QA issues log** by conducting **UAT** during software development lifecycle in an agile framework.
* Work with the **Project Management** in the creation of project estimates.
* Analysis of the data identifying source of data and **data mappings** of HCFG.
* Wrote a complex **SQL**, **PL/SQL**, **Procedures**, **Functions**, and **Packages** to validate data and testing process.
* Worked in generating and documenting Metadata while designing **OLTP** and **OLAP** systems environment.
* Worked in data management performing **data analysis**, **gap analysis**, and **data mapping**.
* Worked extensively in documenting the **Source** to **Target** **Mapping** documents with **data transformation** logic.
* Interact with the SME's to analyze the data extracts from Legacy Systems Mainframes and COBOL Files and determine the element source, format and its integrity within the system
* Created SSIS package to load data from **Flat files**, **Excel** and Access to **SQL server** using connection manager.
* Develop all the required stored procedures, **user defined functions** and **triggers** using T-SQL and SQL.
* Produced report using **SQL Server Reporting Services** (SSRS) and creating various types of reports.
* Transformation of requirements into data structures which can be used to efficiently store, manipulate and retrieve information
* Collaborate with data modelers, ETL developers in the creating the Data Functional Design documents.
* Ensure that models conform to established best practices including normalization rules and accommodate change in a cost-effective and timely manner.
* Enforce standards to ensure that the **data elements** and attributes are properly named.
* Work with the business and the ETL developers in the analysis and resolution of data related problem tickets.
* Support development teams creating applications against supported databases.
* Provide 24 x 7 problem management support to the development team.
* Document various **Data Quality mapping** document, audit and **security compliance** adherence.
* Perform small enhancements SOR element additions, data cleansing/data quality.
* Create various **Data Mapping Repository** documents as part of Metadata services EMR.
* Provide inputs to development team in performing **extraction**, **transformation** and load for **data marts** and **data warehouses**.
* Provide support in developing and maintaining **ETL** processes that extract data from multiple SOR's residing on various technology platforms then transport the data to various delivery points such as data marts or data warehouses.
* Collaborate with data modelers, ETL developers in the creating the Data Functional Design documents.

**Environment:** MS Excel, MS Access, UNIX, Windows XP, SQL, PL/SQL

# ACADEMICS