Manikanta Sai Deepu Vakkalagadda
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Professional Summary:

ETL/ELT Developer with 6 years of experience in Data Warehousing across Insurance, Healthcare, and Banking domains. Skilled in designing scalable, maintainable, and reusable data workflows using tools like Informatica, DBT, and Snowflake on AWS. Proficient in managing automated ETL/ELT processes (daily, weekly, monthly) and optimizing data pipelines. Experienced in ensuring data quality through rigorous validation and testing. Adept at delivering high-performance data solutions tailored to dynamic business needs.

- Over 6 years of experience in the Software Development Life Cycle (SDLC), specializing in Data Warehouse applications within the **Financial, Banking, and Healthcare industries**, focusing on both traditional and cloud-based solutions.
- Proficient in **Snowflake cloud data warehousing**, including expertise in managing **Multi-Cluster Warehouses, Virtual Warehouses, Snowpipe for continuous data ingestion, and leveraging features like Clone and Time Travel** for efficient data management and recovery.
- Extensive experience with **DBT**, creating and managing **seed files** for efficient data loading, working with flat files and delimiters for data ingestion, implementing materializations (e.g., tables, views) for optimized performance, and using snapshots for capturing historical data changes.
- Expertise in creating **reusable macros, Jinja functions** for dynamic SQL generation, and optimizing ELT workflows for improved data processing efficiency and scalability within DBT.
- Proficient in designing and implementing DBT tests, including generic tests (e.g., uniqueness, not_null) and custom tests, ensuring data quality and integrity.
- Strong experience with DBT DAGs (Directed Acyclic Graphs) to streamline and automate the transformation pipeline, ensuring smooth data flow and dependency management.
- Strong expertise in data modeling, including both Star and Snowflake schema designs, ensuring that data structures are optimized for performance and analytics, and aligning with OLTP/OLAP system architectures.
- Proficient in integrating AWS services like S3 with Snowflake for data loading, ensuring seamless data ingestion and transformation for large-scale data warehouses.
- Extensive experience working with Informatica PowerCenter for ETL design, implementing transformations, and optimizing data flow between various source systems and Snowflake.
- Skilled in using Unix shell scripting and Python to automate and streamline ETL workflows, and improve operational efficiency, including error handling and process monitoring.
- Experienced in automating ETL workflows using job scheduling tools like Control-M, Autosys, and Tivoli, and optimizing them for high performance, ensuring timely execution and monitoring of critical tasks.
- Well-versed in Agile and Scrum methodologies, with hands-on experience using tools like ServiceNow and Jira for ticketing, issue tracking, and managing project workflows, ensuring efficient collaboration and timely delivery of projects.
- Experienced in creating and managing CI/CD pipelines using GitLab and Jenkins to streamline deployment processes, ensuring smooth transitions from development to production environments with minimal disruptions.

Technical Skills:

Databases	Oracle, Teradata, DB2, MS SQL Server
Cloud	Snowlfake, AWS
ELT / ETL Tools	DBT, Informatica Power Center, Informatica Data Quality, DATASTAGE
Scheduling tools	Airflow, Control-M, Talon, Autosys, IBM Tivoli
Ticketing tools	JIRA, ServiceNow, ServiceDesk, QTEST
CI/CD	GITLAB, Github
Other Tools & Technologies	Teradata Viewpoint, Putty, Pyspark, Winscp, SVN version control, SharePoint, Jenkins, MFP

Education and Certifications:

- Master in Computer Science Engineering from University of Central Missouri(UCM) in 2024.
- Batchelors in Computer Science Engineering from JNTU Kakinada in 2019.
- **Certified Snowflake snow pro core**

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Professional Experience:
Client: Providence, Renton, WA
Job Role: Sr. DBT / Snowflake Developer   **Aug 2024 – Apr 2025**
Description: Providence is a not-for-profit health care system founded in 1853, operating facilities across seven Western states, including Alaska and California. It provides a range of services, including virtual care, cancer treatment, heart health, and pediatrics, employing approximately 122,000 individuals. With a mission to ensure health for all, Providence has been a leader in health care for over 160 years.

Responsibilities:

- Migrated data from diverse flat file sources into Snowflake, leveraging **DBT** as an **ELT** tool for efficient data transformation and processing.
- Loaded flat files into Snowflake using internal stages, performing necessary transformations before integrating the processed data into Snowflake datamarts.
- Utilized advanced DBT features, including materializations, **Jinja functions**, **macros**, and **snapshots**, to streamline data transformations and workflows in Snowflake.
- Developed and implemented generic and **custom DBT tests** (e.g., unique, not_null, and range checks) to validate data quality and ensure consistency.
- Loaded static datasets into Snowflake using DBT **seed files**, ensuring reliable and repeatable data operations.
- Applied pre-hook and post-hook capabilities in **DBT** for file validation and record count checks to maintain data accuracy and completeness.
- Implemented hash functions **to securely mask Personally Identifiable Information (PII)** and ensure data privacy.
- Designed SQL models and visualized dependencies using **Directed Acyclic Graphs (DAGs)** to optimize workflows and maintain transparency.
- Performed bulk data ingestion from AWS S3 into Snowflake using the **COPY INTO** command for seamless integration of large datasets.
- Recreated source database DDL structures in Snowflake, ensuring schema compatibility and facilitating a smooth migration process.
- Leveraged Snowflake's Time Travel feature to access historical data for audits, troubleshooting, and recovery, ensuring robust traceability and data integrity.
- Mapped flat file structures to Snowflake tables while optimizing data types and relationships for better performance and accessibility.
- Configured and scheduled ETL/ELT workflows using Control-M to align with business requirements and operational timelines.
- Utilized Control-M error and email alert systems for efficient monitoring and quick resolution of pipeline issues.
- Automated file checks and data validation tasks using Unix shell scripting for enhanced reliability and operational efficiency.
- Established CI/CD pipelines with GitHub to automate deployment processes and facilitate seamless transitions between development and production environments.

Environments: DBT, Snowflake, Unix Shell, Github, BMC control - m

Company: Tata Consultancy Services pvt ltd
Client: USAA, Plano, TX
Job Role: Sr. DBT / Snowflake Developer   **June 2022 – Aug 2023**
Description: The United Services Automobile Association (USAA) is a San Antonio-based Fortune 500 diversified financial services group of companies including a Texas Department of Insurance-regulated reciprocal inter-insurance exchange and subsidiaries offering banking and insurance to people and families who serve, or served, in the United States Armed Forces. At the end of 2020, it had more than 13 million members.

Responsibilities:
- Migrated data from the traditional Netezza database to Snowflake Cloud, leveraging DBT as the ELT (Extract – Load – Transform) tool for efficient data processing and transformation.

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- Proficient in transferring flat files from Netezza to MFP (Multi-Function Platform) and ensuring successful migration of data from legacy systems to Snowflake.
- Utilized various **materializations** in **DBT, including tables, views, incremental models, and ephemeral models** to optimize data loading processes in Snowflake.
- Conducted both **generic and user-defined tests** to ensure data quality before loading data into Snowflake marts, maintaining the integrity of data for downstream analytics.
- Designed reusable **Jinja functions** to enhance code reusability across multiple DBT models, improving maintainability and efficiency in the data pipeline.
- Developed and implemented **snapshots** in **DBT** to capture and store changed data in Snowflake, using incremental materialization for efficient data processing across models.
- Designed and implemented event control and reference tables in Snowflake to manage and store extracted data in JSON format, facilitating easy transformation and analysis.
- Created and managed Process Control Tables in Snowflake to track the status of all **CDC jobs**, controlling the load and transformation of Derived Master Tables.
- Extracted DDL statements from source databases to define and migrate database schema to Snowflake, ensuring consistency in data structure.
- Designed and developed data models and DDL scripts based on business requirements, creating the necessary tables in Snowflake for structured data storage.
- Configured AWS-to-Snowflake connections, ensuring proper integration with S3 buckets by managing file paths and access control using ARN and S3 objects.
- Automated job scheduling using Airflow, ensuring smooth execution of ETL processes by managing dependencies and schedules for various tasks.
- Implemented email and error-based event triggers in Airflow, enabling real-time notifications and alerts for successful or failed job executions.
- Created Python-based job scripts in Airflow to execute pre-DBT tasks, preparing the environment and ensuring successful execution of ETL workflows.
- Managed CI/CD pipeline deployments using GitLab, automating the migration of development objects to production environments to streamline the deployment process.

Environments: DBT, Snowflake, Python, GitLab, Airflow

Company: Hexaware Technologies pvt ltd
Client: HDFC Bank, Mumbai, India   **Dec 2021 – May 2022**
Role: ETL Support
Description: HDFC Bank is one of India's leading private banks and was among the first to receive approval from the Reserve Bank of India (RBI) to set up a private sector bank in 1994. Today, HDFC Bank has a banking network of 5,779 branches and 17,238 ATM's in 2,956 cities/towns.

Responsibilities:
- Developed and optimized Spark jobs for large-scale data processing, ensuring efficient use of resources and minimizing execution times.
- Implemented Spark SQL for querying and analyzing large datasets, leveraging Spark's distributed processing capabilities.
- Configured and tuned Spark clusters to optimize performance and manage workloads effectively.
- Performed Oracle database performance tuning and optimization to ensure efficient query execution and data retrieval.
- Managed Oracle database backups, recovery, and patching to maintain data integrity and system stability.
- Developed and implemented data migration strategies for moving data from legacy systems to Oracle databases.
- Used Oracle SQL Loader for high-speed data loading into Oracle databases from external sources.
- Designed and developed ETL mappings in Informatica PowerCenter to extract, transform, and load data from various sources into data warehouses.
- Implemented complex transformation logic using Informatica transformations such as Lookup, Aggregator, and Router.
- Conducted performance tuning of Informatica sessions and workflows to optimize ETL processes.

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- Developed reusable components in Informatica to standardize and streamline ETL processes across projects.
- Created and scheduled jobs in Autosys for automating ETL workflows and batch processes.
- Configured Autosys job dependencies and triggers to ensure correct sequencing and execution of tasks.
- Monitored Autosys job executions and logs to troubleshoot and resolve job failures promptly.
- Implemented Autosys calendar functions to manage job scheduling based on business requirements.
- Performed Autosys job migration and version control during system upgrades or transitions.
- experienced in managing and resolving production issues within SLA constraints.
- Experienced in executing workflows for processing historical data (backdated days).
- Proficient in performing services restarts, database renounces, and managing storage by clearing space on mount points.
- Adept at troubleshooting and resolving failures, including dependency (parental) issues, partition insertion errors, and rejected row handling.
- Proficient in utilizing tools and applications such as Putty, WinSCP, CA Service Desk, and CyberArk for system management and security operations.

Environments: Informatica Power Center 10.4.1, PySpark, Oracle Sql, Autosys

Company: Cognizant Technological Services pvt ltd
Client: Horizon Blue Cross Blue Shield(BCBSNJ), Chennai, India   **May 2019 – Dec 2021**
Job Role: ETL Developer
Description: Horizon Blue Cross Blue Shield of New Jersey has offered quality health insurance products and services to New Jersey families and businesses. Horizon BCBS Established in 1932.

Responsibilities:

- Reviewed and analyzed data integration requirements, sources, targets, and business rules to ensure smooth data flow and address RITM ticket issues.
- Designed, developed, and optimized ETL mappings, sessions, and workflows in **Informatica PowerCenter**, solving complex ETL challenges and ensuring efficient processing.
- Implemented various transformations (Aggregator, Filter, Router, Joiner, Expression, Lookup, Update Strategy, and Sequence Generator) to handle data extraction, transformation, and loading from heterogeneous sources such as flat files (CSV, JSON, XML) and relational databases.
- Automated ETL execution using **Unix shell scripting** and **IBM Tivoli Scheduler**, reducing manual intervention and ensuring timely execution of data loads.
- Monitored and analyzed system logs to resolve ETL performance issues, track job status, and ensure SLA adherence.
- Created and maintained detailed mapping documents and technical documentation for ETL processes, aligning with business and technical requirements.
- Leveraged **Teradata utilities (FastLoad, MultiLoad, TPump)** for efficient data loading and integration with Oracle and flat file sources.
- Optimized **Teradata SQL queries** for performance improvements by minimizing unnecessary joins and tuning queries.
- Used **Teradata Viewpoint** for real-time monitoring of job status and system performance, addressing bottlenecks and resource utilization issues.
- Developed and executed **remediation scripts** to address production issues quickly and minimize downtime.
- Managed **file watchers and validation scripts** to prevent job failures by ensuring correct file formats and availability.
- Utilized **SVN for version control** and streamlined ETL object deployment across environments.
- Contributed to **test strategy development** and ETL job testing, ensuring data quality and performance.
- Liaised with source teams and business analysts to clarify requirements and resolve RITM tickets effectively.
- Maintained technical and functional documentation on **SharePoint** for knowledge sharing and easy reference.

Environments: Informatica PowerCenter 10.x, Teradata, Oracle SQL, Unix Shell Scripting, IBM Tivoli Scheduler, SVN