**Srikanth**

Snowflake Data Engineer

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***PROFESSIONAL SUMMARY***

An enthusiastic professional with around 11 years of IT experience in **Data warehousing**, **Data Engineering**, **Data Modelling**, **Business Intelligence,** **Visualization technologies** and **Data Cloud environments**.

* 7+ years of working experience on **Snowflake** development using **Stored Procedures**, **Snowpipe**, **Streams**, **Tasks** and **Stages**.
* Created process models, revised the **Business Requirement** Document (BRD), Use case Diagrams and flow charts to support product owner to identify **Functional Requirement** specifications (FRS).
* Proficient in gathering and analyzing BRs for EDW initiatives, including **Data Integration**, **Data Modeling** and **ETL** processes. Prepared Functional & Technical Specifications, performing **Data Analysis**, **Coding**, **Testing**, **Implementation** & **Migration**.
* Used IDEs like Eclipse, **Jupyter**, **PyCharm IDE**, Edit Plus, Notepad ++, and **Visual Studio** for development.
* Experience in moving data between **AWS**, **GCP** and **Azure** using Azure Data Factory. Experienced on retrieving data from External and Internal storages into Snowflake.
* Experience in working and implementation of various Snowflake features like **Cloning** and **Time Travel** and In-depth understanding of **Fail-safe** feature.
* Experience in creating snapshot of the source data using **Zero-Copy Clone** feature in Snowflake.
* Experience writing complex SQL queries for **Data analysis** and creation of **Views**. Also worked on complex ad-hoc SQL queries using Joins, DML, DDL, Pivots, Constraints and Functions.
* Experience in working on **Data Sharing** and **Materialized Views** in Snowflake.
* Experience creating **Snowpipe** for Continuous data loads, creating **Streams** and **Tasks** for implementing **CDC** & running the schedules.
* Experience in writing **Copy commands** for **Bulk data** loads.
* Experience working on loading data from **JSON** and **Parquet files** from External storage (**AWS S3 bucket**) into Snowflake.
* Conducted **Data Cleansing**, **Data Validation**, **Data Verification** using ETL tools like **Talend, Informatica, SSIS** & **Python - NumPy, Pandas** to facilitate data migration processes.
* Experience working on **Data Build tool** (DBT) for creation of tables, views, hooks and ETL process.
* In-depth knowledge and understanding of data ingestion process using Flume and Scoop for loading data from Hadoop environment into Relational Databases.
* Worked with **T-SQL**, **Python**, **XML**, **JSON** scripting to scrape data multiple sources.
* Extensive experience in conducting analysis to identify business trends, translating their needs into data and develop dashboards and stories using Python **Matplotlib**, **Power BI**, **Tableau** and **SSRS**.
* Experience in Extraction, Transformation and Loading (ETL) data from various sources into Data Warehouses, as well as data processing like collecting, aggregating and moving data from various sources using Apache Flume, **Power BI** and Microsoft **SSIS**. Experience writing **Python code** for identifying the change and retrieving the data based on data changes.
* Developed Python scripts for **Change Detection** and automated Database changes for one of the Application
* Experience in creating docker images to store the Python code on GitHub enterprise and create a fargate task which uses the release from docker image to run the python code.
* Experience working on GitHub enterprise and Bit Bucket repositories.
* Utilized **SAS** to ensure that quality standards were met for our customer base whilst carrying out analysis.
* Experienced in working on **Agile** methodologies (especially Kanban) and on **Waterfall** methodology.
* Employed Agile methodologies, such as scrum, to breakdown project tasks into sprints, enhancing project visibility and adaptability with in Software Development Life Cycle (**SDLC**).

***TECHNICAL SKILLS***

* SQL, PLSQL, Python, Unix, ANSI C
* Oracle, MySQL, SQL Server DB2
* Snowflake, Informatica PowerCenter
* SSIS, SSRS, Matplotlib, Power BI & Tableau
* AWS- EC2, S3, IAM, Data Cloud – GCP
* Azure – Blob storage, Data Factory
* Jupyter, NumPy, Pandas, PyCharm IDE
* JIRA, Bitbucket, Waterfall, Agile Methodologies
* LRE, Performance Centre, POSTMAN, Fiddler, Swagger UI, Rest API, APM-New Relic and AppDynamics.
* Bachelor of Technology in Electrical and Electronic Engineering from ‘JNT University’, Hyderabad 2012.

***PROFESSIONAL EXPERIENCE***

**Client: GRS-Business Data Solutions – Information Management** **/ LMI- Dover NH**

**Aug 2023 – Present**

**Role: Snowflake Data Engineer**

**Responsibilities**:

* Collaborate with Data/Solutions Architect and Technical/Business peers to gather all the requirements for further development/enhancements to existing model.
* Create Project Planning document which includes effort estimation and brief analysis on existing **ETL & ELT** load processes.
* Provide level of estimates, write detailed Design/Solution documents, develop ETL loading strategies.
* Research and identify the right skills and technical solutions to build or migrate applications on or to cloud base. Enhance the performance of critical legacy applications or identify and decommission legacy systems that are of no use to client.
* Create connections to pull data into Snowflake from External Stage (**AWS S3 Bucket**) and Internal Stage where our team receives downstream data from Loss Data Warehouse (**LDW**) in **CSV/PARQUET/JSON** file formats.
* Create SQL scripts and Stored Procedures/Functions to load data into Snowflake.
* Create **Materialized Views/Secure Views** on top of Snowflake database tables to support reporting needs of the BI Developer.
* Validation of the data loaded into Stage from the Source and then to Operational Data Store (**ODS**) & Data Mart layers.
* Created Data Pipelines using **Snowpipe** for transforming and optimizing continuous data loads into staging tables for interim storage and then create **Tasks/Streams** for execution of series of SQL queries before the data is being inserted into destination tables.
* Written **COPY INTO** commands for bulk data load from Amazon S3 into Snowflake tables.
* Created duplicate database for data testing in lower environments using **Zero-Copy Clone** feature. This allowed our team to perform tests on various scenarios without impacting actual production data.
* Experience connecting to DBT using Partner Connect and providing access to tables/databases to dbt account.
* Leveraged **Snapshot** & **Incremental Models** of DBT (Data Build Tool) for data Modeling in Snowflake.
* Experience creating deployment environments and creating/scheduling jobs using DBT commands.
* Good knowledge on refactoring **SQL** to **DBT**.
* Used Airflow dags (using Python) for scheduling and monitoring of data loads into Snowflake.
* Continuous monitoring of queries running on multiple clusters and always implement or test multiple strategies to optimize the query performance.
* Perform database level dependency analysis on existing and new database objects, identify objects that can be decommissioned or migrated to another existing database.
* Generated **Power BI** dashboards connecting to different sources like IBM DB2/MySQL/Excel/SharePoint.
* Created Power BI, dashboards using Stack bars, bar graphs, scattered plots, geographical maps, Gantt charts using show me functionality.
* Worked on Converting existing **SAS** reports to **Power BI**.
* Created reports based on the statistical analysis of the data from various time frame and division using PowerPivot, Power Query, Power View, Power BI.
* Support end to end data flow in our **Data stream**.

**Client: COURIER APP (aumw)/ FedEx – Texas USA**

**Jan 22 – Aug 23**

**Role: Sr. Data Analyst**

**Responsibilities**:

* Participated in discussions with business users to gathering requirements on future enhancements, support existing features, fix any fallouts as needed
* Performing in a dynamic and agile environment with Scrum Masters, Product Owners, and team members to develop creative data-driven solutions with our **ETL pipeline** that meet business and technical initiatives
* Analyze, develop, and execute data integration solutions, in order to manage the information lifecycle needs of an organization
* Responsible to **collects**, **cleans**, **analyzes**, and interprets data to provide insights and solutions for various problems.
* Collected data from various sources using **Pandas** or other methods, clean/cleanse & processed the data for analysis using **Pandas** or **NumPy** and Analyzed them with its (Python) functions and methods.
* Visualized the data using **Matplotlib** which allows me to do data analysts to create various types of plots and charts, such as line plots, scatter plots, histograms, bar charts, pie charts, etc.
* Extensively used Pandas, NumPy, and Matplotlib together can help data analysts to perform end-to-end data analysis tasks in **Python**.
* Interpreted & secured the results and communicate the findings using reports or presentations.
* Partnered in development and code reviews within team with focus on test driven development and **Continuous Integration and Continuous Development** (CI/CD).
* Ensured all the Application activities are correctly performed and documented for all responsible business applications.
* Participate in critical upgrades in major client technologies like **Teradata**, **DB2**, **SQL Server**, **Informatica Power Center** etc.
* Collaborate with other delivery trains/teams to coordinate dependencies, align application architecture, identify, and leverage reuse opportunities
* Assists in problem resolution as needed to ensure the customers receive prompt, efficient service in accordance with **Data reports** policies

**Client: BRECO /FedEx (Ground) - Texas USA**

**Oct 21 – Jan 22**

**Role: Lead Performance Engineer**

**Responsibilities**:

* Actively participated in user story finalization meetings & to track them in VersionOne for device testing and written the best test cases accordingly and executed functional testing activities in **ALM**.
* I was the responsible to give demo presentation on device in front of clients and that made them to accept the agreed Test cases.
* Involved in **Non-functional requirements** gathering for this application to define the business process.
* Prepared Test Plan and Test Cases based on the non-functional business requirements.
* Responsible to setup the performance testing environment in local as well as in client machines.
* Collaborated with architecture and development teams to analyses the application’s core functionalities and its various dependencies.
* Created and developed with an advanced enhancement of the performance test scripts using **Web HTTP/HTML** and **Web Services** protocol.
* Enhancement of the script is with **Correlation**, **Parameterization** and other user defined functions
* Incorporated the test scripts into **Performance Centre** with appropriate RTS.
* Designed performance test scenarios in Performance Centre based on **Workload** characterization.
* Coordinated with infrastructure teams and execute the PT with **Load** and **Stress** test scenarios for multiple rounds.
* Finalized the simulation patterns and developed the scenarios using Performance Centre workload characteristics.
* Identified Bottleneck in the System configuration and provided recommendation on fine tuning the application server.
* Analyzed the results based on benchmark specification and prepared the **Test Summary Report** and shared results to concern people along with Performance metrics and characteristics.
* Technologies Used: Load Runner 2021 Suite, Performance Centre, AppDynamics, Grafana & (ALM – FT)

**Client: Dubai Chambers / DCCI – Dubai UAE**

**Sep 20 to Aug 21**

**Role: Sr. Performance Engineer**

**Responsibilities**:

* Conduct meeting with the business or development team to identify the scope and thorough understanding of business and the infrastructure
* Contributed my participation in user story finalization and conducted a functional testing activity
* Understanding the Performance test requirements, involved in preparation of Performance **Test Plan** & **Test Strategy**
* Analyzed the tool capabilities (**LoadRunner** and **JMeter**) and conducted Proof of Concept on LRE.
* Securing the Performance Test Environment and communicating with business/development team manager regularly
* Developed the scripts using vugen WEB (http/html) protocol
* Reviewing the test scripts and enhancing them with appropriate functionality
* Captured dynamic values using **Correlation** and **Parametrization** concepts and also enhanced scripts with user defined functions (UDF’s). Validated the correct page navigation by implementing the unique **Text** & **Image** Checks
* Run the scenario on the controller by applying specified vuser loads and by using **Workload model**
* Used **Regular Expression** for Dynamic values in JMeter
* Design, develop and execute load test using JMeter and loaded scripts with required **Test Data**
* Execution of automated test scripts using JMeter based on business specifications
* Involved in test results analysis and presenting them to the development/business team and securing the approvals from the architects
* Technologies Used: HP Load Runner (Microfocus), JMeter, Fiddler, Windows- perfmon, New Relic

**Client: United Airlines (Gemini - RMS)- Chicago IL**

**Apr 19 – Sep 20**

**Role: Sr. ETL Developer**

**Responsibilities**:

* Participated in daily **scrum discussions**, collaborated with team to define stories, discuss status and blockers
* Assess current architecture, create detailed migration plan utilizing work breakdown structure to establish critical path, agreed-upon milestones/deliverables, and resource plans according to cloud migration strategy
* Assist in data management deliverables such as business need analysis and high-level **data modeling** techniques
* Work with technical and business peers on development efforts including designing, analyzing, assessing, and reporting.
* Develop scripts with **Stored procedures**, **Views**, **functions**, **Streams**, **Tasks**, workflows, and complex queries
* Write analysis document on existing ETL, ELT load processes which helps in effort estimations in migration process
* Provide level of estimates, write detailed Design/Solution documents, develop **ETL loading strategies** along with offshore developers
* Craft complex, high performance SQLs in RDBMS (SQL Server, DB2, Oracle) and distributed querying (Snowflake) and NoSQL systems.
* Validation of Data loads from Source to stage and then ODS and **Data Mart Layers**
* Build automated process to perform Database and ETL (Extract Transform and Load) level object dependency analysis
* Work with data engineers on development efforts including designing, coding, testing, and debugging during each cycle
* Use troubleshooting skills and work closely with operations, support, engineering and/or other functions to ensure successful migrations.
* Support end to end **Dataflow** in the new Cloud Database/Data platform.
* Accountable for Enhancements and **Testing of New changes** to the Snowflake Cloud Platform
* Perform database level dependency analysis on existing and new database objects, identify objects that can be decommissioned or migrated to another existing database
* Identify risks, actions, and issues through proactive communication and collaboration with stakeholders and various teams ensuring all stakeholders are on board
* Worked on Converting existing **SAS** reports to **Power BI**.
* Created reports based on the statistical analysis of the data from various time frame and division using PowerPivot, Power Query, Power View, Power BI.

**Client: FOT & Delivery in Full- and On-Time reporting (DIFOT)-Melbourne Australia**

**Mar 17 – Feb 19**

**Role: Snowflake/ ETL Developer**

**Responsibilities**:

* Worked closely with business teams/product owners to understand Business needs and document requirements, mappings as per the reporting needs
* Data Analysis related to Agency Development Profile reporting needs as part of Integration needs
* Met with Source Teams, Business Analyst to fill the gaps and document the data element as per reporting requirements.
* Generated Power BI dashboards connecting to different sources like **IBM DB2/MySQL/Excel/SharePoint**.
* Created Power BI, dashboards using Stack bars, bar graphs, scattered plots, geographical maps, Gantt charts using show me functionality.
* Worked extensively with Advance analysis Actions, Calculations, Parameters, Background images and Maps.
* Developed parameter and dimension-based reports, drill-down reports, matrix reports, charts, and Tabular reports using Power Bi Desktop.
* Querying, creating stored procedures and writing complex queries and **T-SQL** Joins to address various reporting operations and random data requests.
* Created reports based on the statistical analysis of the data from various time frame and division using **PowerPivot**, **Power Query**, **Power View** and **Power BI**.
* Perform Impact Analysis for changes in the system and provide feasible solution.
* Analyze data and technical system problems to design and implement effective, flexible solutions.

**Client: Education Personnel Management Ltd /EPM - London UK**

**Jul 12 – Mar 17**

**Role: Snowflake Developer**

**Responsibilities**:

* Analyze the approach for data to be **migrated** between the on-premises databases Oracle and SQL Server to **Snowflake** Cloud data platform.
* Design and Develop application enhancements thus optimizing the usage and performance.
* Craft, Develop, Enhance, Test and Support batch processes, applications, and **data movement.**
* Design and document the steps for validation of data that needs to be migrated from Oracle, SQL Server to Snowflake (**Cloud Data Platform**).
* Highly involved in building new Data Lake environment by leveraging the cloud technologies – **AWS S3.**
* Find application-level optimization opportunities, do **POC**s, evaluate fitment of new tools and technologies.
* Analyze Oracle SQL & PL/SQL, SQL Server code and convert it to Snowflake that can be run on Cloud Database-Snowflake.
* Script/Code for movement of data between multiple Sources, Databases using **Python**.
* Implement scalable designs and software engineering excellence practices.
* Assess and research the current implementation of the platforms and define the course of action for modernization.
* Worked on Monthly and Quarterly releases, prepare cut-over document, non-production and production deployments, post deployment verifications.
* Providing technical vision and hands-on technology solutions implementation to meet business requirements
* Support and contribute to plans for retirement of data and application technical debt.
* Collaborate with peers and the leadership team on process improvement ideas, policy and procedure enhancements, and opportunities to improve the customer service experience.
* Provided production support, involved in resolve issues within SLA.
* Provide continuous support to different teams, vendor partners for any of the support issues on pipeline or the delivery of the build.