LAKSHMAN GUGULOTH

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SUMMARY

- Having 15+ years of IT experiences in the Analysis, Design, Developing, Testing, and Implementation of business application systems.
- Worked with clients in setting up, and migrating from on-premise databases to Snowflake environment.
- **Certified SnowPro Core Certification (COF-C02).**
- Hands-on experience with Snowflake utilities such as SnowSQL, SnowPipe, Python, Tasks, Streams, Materialized Views, Optimizer, Metadata Manager, Secure Data Sharing, and Stored Procedures.
- Expertise in Snowflake advanced concepts like setting up Resource Monitors, Role Based Access Controls, Virtual Warehouse Sizing, Clustering, Zero Copy Cloning and Time Travel.
- Experience in Data Ingestion to Snowflake from CSV, JSON, Parquet and XML files.
- Experience in Business Intelligence solutions using Data Warehouse/Data Mart Design, ETL, OLAP, BI, Client/Server application.
- Strong understanding of Dimensional Modeling, Star, Snowflake Schema, OLAP and DW concepts.
- Hands-on experience in Hadoop, HDFS, Map Reduce, Hive, Kafka, Spark, PySpark, NiFi, Spark Streaming and Spark SQL.
- Have strong relational and Datawarehouse concepts and worked on several databases such as IBM DB2, Tera Data, Oracle, SQL Server, MongoDB, Hive and Redis.
- Experienced in scheduling of ETL jobs using different scheduling tools like Crontab & Autosys
- Extensive knowledge in SDLC (Software Development Life Cycle) and executed projects in Waterfall and Agile methodologies.
- Team player, Motivated, able to grasp things quickly with analytical and problem-solving skills.

Technical Skills

HADOOP Technologies:	**HDFS, MapReduce, Hive, Kafka,**	
CLOUD Technologies:	**AWS**	
SPARK:	**Spark Core, Spark SQL, Spark Streaming, Spark, MLlib, PySpark**	
LANGUAGES:	**Java, Scala, Python, COBOL, C, JCL, Shell/Java Scripting**	
IDEs:	**Eclipse, Scala IDE, Cloud, Databricks, Anaconda/Jupyter Notebook, VS Code**	
OS:	**Windows, Unix/Linux, Ubuntu, MVS/ESA/XA**	
DATABASES:	**Oracle, MySQL, Cloud Storage, HDFS, DB2, TERADATA, SQLite, PostgreSQL**	
Machine Learning:	**Linear, logistic regression, K-Means**	
OTHERS:	**Data Science, ZooKeeper, BigQuery, Pandas, NumPy, Django, GCP, Azure, Snowflake, AUTOSYS, CRONTAB Scheduling, Redshift**	

EDUCATION

- B.E in Computer Science and Engineering from OSMANIA University, India

PROFESSIONAL EXPERIENCE

Organization	Designation	Duration
TATAAIA Life Insurance	Sr. Data Engineer	January 2020 – Till Date
Ford Motor Company	Sr. Lead Analyst	August 2010 – December 2019
Cognizant Technology Services	Asst. Manager	June 2007 – July 2010

Project: TLI Cloud, TATAAIA Life Insurance
Responsibilities:

- Created Database objects in Snowflake and migrated data from MS SQL Server into Snowflake.
- Uploaded data files from local instance into Amazon S3 buckets as staging area.
- Created SnowSQL and Python scripts for mapping and to load data into Snowflake.
- Handled large and complex sets of XML, JSON and CSV files.
- Utilized Amazon EC2 instances to implement and execute Python scripts for data transformation on the entities which are not 1 to 1 mapping and have medium complexity.
- Implemented Snow-pipe for staging files and continuous data loads to Snowflake.
- Experienced in querying data on structured/semi structured files in staging area before data ingestion into tables.
- Created new streams for capturing all data changes based on DML operations.
- Written tasks to trigger on streams consuming so that the changes in data gets updated to new tables.
- Have used Tidal as Schedule and monitoring tool for monitoring and scheduling jobs based on dependencies.
- Have integrated Snowflake to Tableau reporting tool for end user access.
- Cloned production data for code modifications and testing and used time travel to recover and backup data objects.
- Worked on setting up Resource monitors for monitoring Virtual Warehouse's sizes, clusters and usage.
- Provided production support for Data Warehouse issues such as data loading, transformation and translation problems.

Environment: Snowflake, SQL, AWS S3 buckets, EC2, SnowSQL, Python, Flat files, XML, JSON,

Project: Good Connect, TATAAIA Life Insurance

Responsibilities:

- Involved in Data Migration from on premise databases to Snowflake.
- Managed user access and created new role-based access/security accounts.
- Developed ETL pipelines in and out of data warehouse using a combination of Python/ETL tools and Snowflake's SnowSQL.
- Implemented Snow SQL, Snow Pipe, Streams, Tasks and Stored Procedures in Snowflake.
- Performed batch and incremental loads within Snowflake using ETL tools SnowPipe Streams and Tasks.
- Implemented Snowflake advanced concepts like setting up resource monitors, role-based access controls, data sharing, virtual warehouse sizing, query performance tuning.
- Performed Backup and restore of databases using zero copy cloning and time travel.
- Designed and implemented effective Analytics solutions and models with Snowflake.
- Created file storage/integration objects for AWS on Snowflake.
- Created Stored Procedures, Triggers, Functions, Indexes, Views, Joins and T-SQL code for applications.
- Created the DTS Package through ETL Process to vendors in which records were extracts from Flat file and Excel sources and loaded daily at the server.
- Responsible in extracting the data from wide range of sources such as flat files, EXCEL, XML and query processing using SQL Server editor.

- Constructed OLTP and OLAP Databases.
- Design and develop dynamic advanced T-SQL, PL/SQL, MDX query, stored procedures, XML, user defined functions, parameters, views, tables, triggers, indexes, constraints, SQL Server Agent jobs, deployment scripts and installation instructions for enterprise data warehouse and applications.
- Performed technical data analysis, design and development for multiple transactional and warehousing initiatives.
- Provide support for troubleshooting of Map Reduce and Hive Jobs
- Handled importing of data from various data sources, performed transformations using Spark Core, Spark SQL, Spark streaming and loaded data into various target source HDFS, MySQL.
- Creating Hive tables and working on them using Hive QL.
- Document every aspect of an application or system as a reference for future maintenance and upgrades.

Environment: SQL, PL/SQL, Python, Snowflake, Flat files, JSON, XML, Hadoop, HDFS, Map Reduce, Hive, Hive QL, MySQL, Spark Core, Spark SQL, Spark Streaming

Global Prices & Revenue Targeting System (GPARTS), Client: Ford Motor Company
As a Senior Lead Analyst oversaw multiple applications new developments, enhancements and ensured high-availability of applications for the business. Integrate GPPS system across the regions (NA, EU, AP & EG) into one central Global Prices & Revenue Targeting System (GPARTS) to reduce maintenance cost, increase user productivity and satisfaction. Automation of major reports, upload dealer prices and MLI factors.

Responsibilities:
- Responsible for Gathering Business Requirements, Technical Design/Specifications
- Participated in translating business requirements into functional specifications.
- Analyzed complex business issues and generated solutions from business and technical point.
- Brainstorm technical designs with the team (developers, users, management), to ensure all stakeholder are engaged and are part of the solution.
- Actively involved in data modeling, technical design, Web application development, and QC/UAT test case development.
- Manage a global team of developers on multiple software platforms within budget and project schedule.
- Developed AUTOSYS JIL scripts for DEV/QA/PRODUCTION Environments

Environment: DB2, SPUFI/QMF, COBOL, IMS DB/DC, CA7 Scheduler, Oracle/PLSQL, Unix/Linux, AUTOSYS, CRONTAB Scheduling, Oracle SQL Developer, SQL Server, XML, Putty, SharePoint

COGNIZANT TECHNOLOGY SERVICES (CTS), Client: Express Scripts (ESI) / CURASCRIPT Specialty Pharmacy
As an Assistant Manager technology manager and offshore coordinator, I was responsible in making sure all deliverables were delivered on time and to client's expectations, Worked closely with various lines of businesses during the early project phases. During the later phases of the project, I authored high-level design document with emphasis on end-to-end integration, provided project metrics to senior management, Mentored the offshore team members and Instrumental in delivering the value to the business by various IT solutions.

Responsibilities:
- The engagement model includes QA testing, Production Support, Enhancement and New Development and Common Services lines of business (LOB).
- Daily and Weekly Interaction with Project Leads and Program Managers to discuss about current technical issues and Architecture & Design of Non-Functional requirements for the new applications. Creating Visual representation using UML and Microsoft Visio.
- Provided strong technical assistance to the team.

- Weekly status meetings with CBT (Chief Business Technologist) and Infrastructure teams for the current follow-ups on technical issues for new applications as well as current applications.
- Involved in design and infrastructure requirement for JAVA/CENTURA based application for Common Services. This application used for data migration Services. Oracle 10g, DB2 and unstructured sources are used in this project.
- Involved in legacy application migration from Gupta SQL/CENTURA to Java/J2EE.
- Co-ordinate with Third Party Vendors and Application Development (AD) teams for new software requirements and licensing. Assist in proof-of-concept methodologies for latest tools and technologies.

Environment: Oracle 10g, Gupta SQL/ CENTURA, Java 2.0, J2EE, DB2, TOAD, UNIX, Windows XP

CERTIFICATIONS & PROFESSIONAL TRAINING
- **Certified SnowPro Core Certification (COF-C02)**
- Training on Snowflake Cloud Data Warehousing, AWS Cloud, GCP, Machine Learning, Scala, Python and SPARK
- Training on Big Data Hadoop Ecosystem
- IBM Certified Specialist DB2 UDB V6.1/V7.1 User
- Training on Project Management (PMP)

AWARDS
- Ford Innovation Leadership achievement/Extraordinary Effort & Performance Award
- Global Parts Pricing System, Outstanding Achievement Award of Ford Motor Company
- Outstanding Achievement Award of Express Scripts
- Project Success Recognition Award of Ford Motor Company