**Avinash Reddy L**

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# SUMMARY:

* Highly skilled and accomplished Snowflake Architect with over 14 years of experience in the IT industry. Expert in designing and implementing complex data warehousing solutions using Snowflake cloud data platform. Proven track record of delivering successful projects and leading teams to achieve exceptional results. Possess in-depth knowledge of data modeling, performance tuning, and cloud based ETL tools.
* **Data Architecture Design:** Design and create data architectures, including database schemas, tables, and views, to ensure data integrity, performance, and scalability in Snowflake.
* **Cloud Data Warehouse Implementation:** Lead the implementation of Snowflake cloud data warehouses for various data sources, both on-premises and cloud-based.
* **Data Integration:** Design and implement data integration solutions to ingest data from various sources into Snowflake, ensuring data quality and proper transformation.
* **Performance Optimization:** Optimize SQL queries, data pipelines, and ETL processes to improve overall system performance and reduce latency.
* **Data Security and Compliance:** Establish and enforce data security measures, access controls, and encryption mechanisms to protect sensitive data and ensure compliance with industry regulations.
* **Data Governance:** Implement data governance practices to maintain data quality, data lineage, and data lineage in Snowflake.
* **Collaboration:** Collaborate with cross-functional teams, including data engineers, data scientists, and business analysts, to ensure smooth integration of Snowflake solutions into business processes.
* **Troubleshooting and Support:** Identify and resolve technical issues related to Snowflake implementation and provide support to address any operational challenges.
* **Best Practices and Standards:** Establish best practices, coding standards, and guidelines for data modeling, schema design, and SQL query optimization in Snowflake.
* **Cost Optimization:** Monitor and optimize the usage of Snowflake resources to manage costs effectively and ensure optimal resource utilization.
* **Continuous Learning:** Stay up to date with the latest trends and advancements in Snowflake and related technologies to suggest and implement improvements in the data architecture.
* **Documentation:** Maintain comprehensive documentation of data models, architecture designs, and technical specifications for reference and knowledge sharing.

**CERTIFICATIONS:**

* Snowflake SNOWPRO ADVANCED DATA ANALYSTCERTIFIED
* Snowflake SNOWPRO ADVANCED ARCHITECT CERTIFIED
* Snowflake SNOWPRO CORE CERTIFIED
* Databricks Data Engineer Associate Certified
* Certified AWS Certified Solutions Architect (Associate)
* Cloudera Certification Hadoop Developer (CDH5)
* Google Cloud Platform (Google Cloud Architect)

# TECHNICAL EXPERTISE:

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| --- | --- |
| Data Warehouse | Snowflake , Bigquery |
| ETL Tools | Qlik Replicate ,Fivetran,ADF,AWS Glue |
| Cloud | AWS, GCP , Azure |
| Cloud Services | AWS S3 , EC2,ADF, ADLS ,Function App , Logic App, Snowpipe |
| Programming Language | Python, Scala , SQL |
| Version Control | GitHub, Azure CI/CD |
| Databases | Oracle , SQL Server ,Azure SQL Cloud |
| Big data | Hadoop , Hive , Spark , Sqoop ,Databricks |
| Orchestration tools | Airflow |
| IDE | Eclipse , IntelliJ, PyCharm |

**EDUCATION:**

* Bachelor of Technology, Computer Science and Engineering, March – 2008, India

**EXPERIENCE:**

**Snowflake Lead / Architect Nov 2020 - Present**

**ExxonMobil, Houston, TX**

ExxonMobil seeks LTI organization to assist company's Information Technology, Manufacturing IT (MOIT) organization to execute project to develop manufacturing maintenance data storage and reporting platform in Snowflake Data Cloud that allows integration of data from multiple sources.

**Responsibilities:**

* Led the architecture and implementation of Snowflake cloud data platform for enterprise data warehousing.
* Designed and developed data models, roles, and schemas for optimized data processing and storage.
* Successfully migrated on-premises data warehouses to Snowflake, resulting in improved performance and cost savings.
* Collaborated with cross-functional teams to define data requirements and integration strategies.
* Implemented data security and access controls for sensitive information in Snowflake.
* Conducted performance tuning and optimization for SQL queries and ETL processes.

**Environment: Snowflake, Azure CI/CD, Snowsql, ER Studio, Python, Azure Data Factory**

**Snowflake Lead Developer June 2018 – Oct 2020**

**Cisco, San Jose, CA**

Worked on multiyear, transformational Snowflake migration program to migrate heterogonous enterprise data platforms like - Hadoop (MAPR Data Platform), SAP HANA, Oracle, Teradata, SFDC, MYSQL, Flat files and others into Snowflake. Involved in designing of automation frameworks (Python) and tools to ingest data into snowflake, extensively involved in metadata setup and data ingestion.

**Responsibilities:**

* Managed end-to-end data warehouse projects, from requirements gathering to deployment.
* Led a team of data engineers and analysts to deliver high-quality data solutions.
* Designed and implemented data ingestion pipelines from various sources into Snowflake.
* Developed complex ETL workflows using cloud-based tools (e.g., AWS Glue, Azure Data Factory).
* Implemented data governance and data quality processes to ensure data accuracy and consistency.
* Provided technical guidance and mentorship to junior team members.

**Environment: Snowflake, Oracle, Teradata, Hadoop, Snowsql, Python, Control-M**

**Senior Lead Developer Oct 2017 – May 2018**

**Kohl’s, Milpitas, CA**

KOHL'S is one of the top 10 retail marketing chain in United States for 55 years, which based out in 1,155 locations Core marketing is done on Clothing, footwear, bedding, furniture, jewelry, beauty products, electronic, housewares. Introduced DW/BI for analytics and reporting which helps KOHL'S to improve the business strategy and efficiency Recently KOHL'S aimed to migrate all the analytics data storage to GCP - Google Cloud Platform using big data Technologies.

**Responsibilities:**

* Designed the Data flow and Architecture and understanding the business functionality & Analysis of business requirements.
* Lead the team with excellent team spirit and made sure that everyone is on same page and execution as per client requirement.
* Developed Shell scripts from the scratch with all wrapper functions in it.
* Developed PIG Scripts which has functions, multiple joins using the functions defined and retrieval of data from multiple tables.
* Optimizing the PIG Script for swift load of data into Stage & Gold Tables
* Refining the existing wrapper scripts which triggers the hive and pig scripts.
* Integration of Developed Shell scripts, Hive Scripts, Pig Scripts, Jenkins build, Deployment using Tonomi and job execution using Azkaban scheduler
* Creation of automated Azkaban jobs to trigger the shell scripts developed.
* Identified the root cause for the issues identified by the QA Team
* Guided Security team on the issues related to access, path creation by wrapper scripts & Execution of wrapper scripts.
* GIT & Gerrit versions control as per the client standards.

**Environment: Google Cloud, Bigquery, Hadoop, Hive, Oozie, Spark, Sqoop**

**Senior Hadoop Developer Dec 2014 – Sep 2017**

**Bank of America (India)**

Migrate discovery analytics and reporting to 1H to provide a scalable lower-cost solution for rapidly expanding data volumes, minimizing need for SAN storage in Oracle. Archive ATM events from Oracle to 1H to minimize the storage cost, Source system is operational oracle database and will store in XML format. Evaluate capability of 1H to support a true discovery analytics express.

**Responsibilities:**

* Explore CCVT-IVR data to discover trends, Call objectives to improve performance and service.
* Writing hive queries for analytics on the data, which is stored inside HDFS.
* Optimizing Hive, Shell script programs for better performance and faster response
* Writing complex workflows using Oozie for Scheduling.
* Writing Sqoop jobs and optimized Sqoop jobs for importing data from RDBMS to HDFS.
* Writing Shell scripts combined with Sqoop queries for performing Sqoop Merge.
* Writing Autosys Jobs.

**Environment: Hadoop, Hive, Oozie, Spark, Sqoop, MapReduce, CDH**

**Hadoop Developer Mar 2010 – Nov 2014**

**Client: HSBC (India)**

Web log analysis (also called a web log analyzer) is a kind of web analytics software that parses a server log file from a web server and based on the values contained in the log file, derives indicators about who, when, and how a web server is visited. Analyzing this data helps in predicting the visitor's behavior and modify the website design and/or marketing campaigns for improved success and to acquire new customers.

**Responsibilities:**

* Understanding the Functional/Technical Requirements to prepare the effort.
* Preparing HLD/LLD
* Writing hive queries for analytics on the data, which is stored inside HDFS.
* Optimizing Hive, Shell script programs for better performance and faster response
* Writing complex workflows using Oozie for Scheduling.
* Writing Sqoop jobs and optimized Sqoop jobs for importing data from RDBMS to HDFS.
* Writing Shell scripts combined with Sqoop queries for performing Sqoop Merge.

**Environment: Hadoop, Hive, Oozie, Spark, Sqoop, MapReduce, CDH**