**Trinath Nalajala**

**203-435-0611**

**tnalajala@gmail.com**

**Professional Summary:**

* 8+ years of experience in Data warehousing and Business Intelligence with Relational data sources along with 6

years of data visualization using Tableau and 3+ years of experience using Snowflake DB

* Snowflake-Data Warehousing: Having 3+ years of solid experience in end-to-end

implementation/administration of snowflake projects. Business Requirements gathering, Analysis, Prepare Functional &amp; Technical specifications, Design (Logical and Physical model), Coding, Testing, Code

* Experience in Integrating tools with snowflakes through standard connectors and adopters.
* Experience in Snowflake cloud development and snowflake admin management.
* In-depth understanding of Snowflake Architecture.
* Experience in migrating data various sources to Snowflake Data Warehouse.
* Experience in building Snowpipe for ingesting streaming data into snowflake.
* Experience In using Informatica Cloud (IICS), AWS Glue, Fivetran to extract, transform and load data (ETL/ELT).
* Strong Experience on AWS platform and its dimensions of scalability including **S3, RDS, Redshift AWS Glue, SQS, SNS, EC2, Lambda, VPC, ELB, IAM,** Auto-scaling, CloudWatch, CloudTrail, Security Groups.
* Expert in Writing SQL Queries, stored procedures.
* Automated data pipelines using streams and tasks.
* Experience in using and tuning relational databases (e.g., Microsoft SQL Server, Oracle, MySQL) and columnar databases (e.g., Snowflake, Amazon Redshift).
* Experience with extracting and combining different data sources, different databases and data warehouses including Amazon Redshift.
* Experienced with event-driven and scheduled AWS Lambda functions to trigger various AWS resources.
* Experience in creating complex Spotfire dashboards with sophisticated visualizations involving information links and calculated columns using Tibco Spotfire Professional.
* Knowledge in Data Warehousing Concepts in OLTP/OLAP System Analysis and developing Database Schemas like Star Schema and Snowflake Schema for Relational and Dimensional Modelling.
* Provided 24/7 technical support to Production and development environments.

**Technical Skills:**

|  |  |
| --- | --- |
| **Cloud Platform** | Snowflake, AWS |
| **Monitoring Tools** | Splunk, CloudWatch |
| **Database** | MySQL, SQL Server, Teradata, Oracle |
| **Version Control Tools** | Subversion (SVN), GIT, GIT Hub |
| **Bug Tracking Tools** | JIRA, ServiceNow, Bugzilla |
| **Languages & Scripts** | SQL, Python, JavaScript, HTML, CSS, XML, Java, C |
| **SDLC** | Agile, Scrum |
| **ETL/ELT Tools** | AWS Glue, Informatica cloud (IICS) , Talend, Fivetran |

**Certifications:**

* AWS Certified Solution Architect – Associate
* Coursera Certified - Python Data Structures from University of Michigan

**Professional Experience:**

**Staples,INC Aug 2021 to Present**

**Senior Snowflake Consultant**

**Responsibilities:**

* Setup and configuration of Snowflake Data Warehouse as Enterprise Data Platform.
* Designed architecture of ELT/ETL data pipelines from source to target following best practices which involves batch processing, near real time data ingestion and micro-batch processing.
* Implemented snowpipes for continuous data ingestion of streaming data such as IOT devices.
* Created resource monitor to manage data platform costs and snowflake credit’s consumption.
* Manage and maintain proper data governance with RBAC (role-based access authentication).
* Recommended technical solutions for complex development and integration problems.
* Implemented dynamic data masking at query runtime.
* Shared data to other consumers by creating reader accounts.
* Improve Performance by implementing clustering keys, automating warehouse size, and tuning of queries.
* Followed and implemented snowflake’s best practices for securing data in snowflake.

**Environment:** Snowflake, SQL server, AZURE, TALEND, JENKINS and SQL

**Wellcare, Tampa, FL Feb 2019 to July 2021**

**Snowflake Consultant**

**Responsibilities:**

* Managed RBAC Controls in building security Model for Snowflake Data warehouse and used Resource Monitors.
* Shared data to customers by creating share and granting usage.
* Worked on performance optimization of Snowflake DW using dedicated and multi clustered warehouses, also by using cluster keys to partition large tables.
* Involved in Migrating Database Objects from Teradata and MS SQL Server to Snowflake.
* Created Snowpipe for continuous loading of data into snowflake from AWS S3 buckets by configuring SQS events in order to trigger Snowpipe.
* Performed loading into snowflake by bulk loading using COPY.
* Implemented streams and tasks for continuous ELT workflows to process recently changed data (CDC).
* Performed data masking while sharing confidential data to users.
* Successfully migrated logic and data from a legacy database to Snowflake by developing new tables based on stakeholder needs using SnowSQL.
* Created internal and external stages and transformed data during load.
* Performed data transformations using AWS Glue and PySpark/python script to ingest data into snowflake.
* Used functions such as Lateral Flatten to convert the loaded JSON data into column in snowflake.
* Worked with both Maximized and Auto-scale functionality.
* Used Temporary and Transient tables on diff datasets.
* Cloned Production data for code modifications and testing.
* Shared sample data using grant access to customer for UAT.
* Used time traveling feature to recover data.

**Environment:** Snowflake EDW, AWS Glue, AWS S3, AWS Kinesis, AWS EC2, Informatica Cloud (IICS), Teradata, Oracle, Power BI, MS SQL Server.

**Kaiser Permanente, Pleasanton, CA July 2017 to Dec 2018**

**AWS Data Engineer**

**Responsibilities:**

* Designed and setup Enterprise Data Lake to provide support for various uses cases including Analytics, processing, storing, and Reporting of voluminous, rapidly changing data.
* Designing and building multi-terabyte, full end-to-end Data Warehouse infrastructure from the ground up on Confidential Redshift for large scale data handling Millions of records every day.
* Implementing and Managing ETL solutions and automating operational processes.
* Optimizing and tuning the Redshift environment, enabling queries to perform up to 100x faster for Tableau and SAS Visual Analytics.
* Implemented Work Load Management (WML) in Redshift to prioritize basic dashboard queries over more complex longer-running adhoc queries. This allowed for a more reliable and faster reporting interface, giving sub-second query response for basic queries.
* Worked on integrating data from different cloud sources like Salesforce, NetSuite in Redshift and AWS RDS (MySQL).
* Designed and Developed ETL jobs using AWS Glue, Informatica to extract data from Salesforce, NetSuite and load it in data mart in Redshift.
* Built on-premises data pipelines using Kafka and Spark streaming using the feed from API streaming Gateway REST service.
* Build pipelines from Salesforce and NetSuite to MySQL (AWS RDS).
* Developed the PySpark code for AWS Glue jobs and for EMR.
* Extensively worked on configuring **S3**versioning and lifecycle policies to and backup files and archive files in glacier.
* Implemented a centralized logging system using log stash configured as an ELK stack (Elastic search, Log stash, and Kibana) to monitor system logs, AWS Cloud Watch, VPC Flow logs, Cloud Trail Events, changes in S3.

**Environment:** AWS, Redshift, Amazon RDS, VPC, IAM, S3, EC2, Lambda, AWS Glue, Cloud Watch, Cloud Formation, Cloud Trail, Cloud Front, Python, MySQL, Elastic search, Docker, Jenkins, GIT, Splunk, ELB, Informatica

**Cisco, Sanjose, CA Dec 2016 to June 2017**

**Sr.ETL Developer**

**Project Name: AppFIT**

The AppFIT dashboard project provides insights into the health of applications. The dashboard allows you to filter on applications based on many parameters so that you can focus on what you are interested in. IT Application owners, application support leaders, Service Leads, Tower Leads, Client Service Leaders and IT leadership will find these dashboards valuable for application health investment decision making.

**Responsibilities:**

* Responsible for creating Workflows and sessions using Informatica workflow manager and monitor the workflow run and statistic properties on Informatica Workflow Monitor.
* Used debugger to validate mappings and gain troubleshooting information about data and error conditions.
* Involved in creating shell scripts for various database objects related to the data model, which involve in creation of schema, tables, sequences, views, Materialized views, constraints, and indexes.
* Developed shell scripts to automate Session (pre-session and post- session) tasks.
* Sound knowledge in migrating mappings from development to production.
* Used SQL, PL/SQL, and TOAD to validate the Data going in to the Data Warehouse.
* Developed mappings with Transformations and Mapplets confirming to the business rules.
* Migrated Informatica folders, mappings, workflow, reusable objects from one environment to another and in the process of change control.
* Worked with pre and post sessions and extracted data from Transaction System into Staging Area.
* Developed and maintained technical documentation for Informatica servers and repositories.
* Prepared Unit Test Specifications (UTS) and Performed Unit Testing, Integration testing and UAT with UTS.
* Involved in solving data issues raised in UAT by business.
* Analyzing the issues raised in production support and provide Root Cause Analysis document for the issues
* Monitored the existing ETL jobs and takes necessary actions as per the errors.
* Analyzed performance measures to fit the reporting needs of the company.
* Worked closely with tableau developer and Provided the complex SQL queries.
* Extensively used ETL to load data from Flat files, COBOL files, Mainframe VSAM files and flat files.

**Environment:** Informatica Power Center 9.6.1, Oracle 11g and SQL developer. DB2 v8.1, PL/SQL, Microsoft SQL Server, Windows XP, SFDC, SBL, UNIX Shell Scripts and DB2 Connect, Informatica Power Exchange, Salesforce, SBL, SAP, Tableau

**Lanyon Solutions, TX Feb 2014 to Dec 2016**

**ETL Developer**

**Responsibilities:**

* Developed Logical and Physical data models that capture current state/future state data elements and data flows using Erwin 4.5.
* Responsible for design and build data mart as per the requirements.
* Extracted Data from various sources like Data Files, different customized tools like Meridian and Oracle.
* Extensively worked on Views, Stored Procedures, Triggers and SQL queries and for loading the data (staging) to enhance and maintain the existing functionality.
* Done analysis of Source, Requirements, existing OLTP system and identification of required dimensions and facts from the Database.
* Created Data acquisition and Interface System Design Document.
* Designed the Dimensional Model of the Data Warehouse Confirmation of source data layouts and needs.
* Extensively used Oracle ETL process for address data cleansing.
* Developed and tuned all the Affiliations received from data sources using Oracle and Informatica and tested with high volume of data.
* Responsible for developing, support and maintenance for the ETL (Extract, Transform and Load) processes using Oracle and Informatica PowerCenter.
* Created common reusable objects for the ETL team and overlook coding standards.
* Reviewed high-level design specification, ETL coding and mapping standards.
* Designed new database tables to meet business information needs. Designed Mapping document, which is a guideline to ETL Coding.
* Used ETL to extract files for the external vendors and coordinated that effort.
* Migrated mappings from Development to Testing and from Testing to Production.
* Performed Unit Testing and tuned for better performance.
* Created various Documents such as Source-to-Target Data mapping Document, and Unit Test Cases Document.

**Education:**

* **Master’s in computer science – University of NewHaven, West haven, CT - 2013**
* **Bachelor’s in computer science engineering, JNTU – Hyderabad, India 2011**