Shyam Prasad

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**SUMMARY**

Enterprise information management professional with expertise in solutioning and architecting enterprise initiatives and data capabilities . Proficient in creating and managing data requirements and standards for a wide variety of data domains and use cases across enterprise .Demonstrated ability to synthesize and translate complex business requirements into accurate, flexible solutions and data products using cloud technologies with the ability to communicate results effectively to a diverse audience, Key competencies include:

| ***Big Data*** | * Big Data Lakes * Big Data Governance & Quality * Big Data Engineering * Big Data Management   ● |
| --- | --- |
| ***EIM*** | * Strategic and tactical IT solutions design, implementation and governance of Enterprise Information Management capabilities |
| ***Data Architecture*** | * Enterprise and project level data architectures * OLTP (online transaction processing) data stores * Data lake Warehouses and Analytical Data Stores * Data Mesh and Data Fabrics Architectures |
| ***Data Analytics*** | * Business and data insights for analytics * Data Visualizations and Dashboards |
| ***Cloud Computing*** | * Deep knowledge on Azure & AWS Cloud Data Services * Expert in solutioning Cloud Data Products & Architectures . |
| ***Data Management*** | * Data management platform assessment * Metadata Management solutions * Data quality management and governance Implementation * Master Data Management (MDM) |

**PROFESSIONAL EXPERIENCE**

**NMDOH (Department of health New Mexico)-, Santa Fe, NM Jan 2021 -Till date**

Role: Cloud Data Engineer/Architect Responsibilities/Achievements:

* Design ,Development and Implementation of data lake for Enterprise Data Management using Azure Data Services.
* Assemble and analyze large complex data sets that meet non-functional and functional business requirements using azure cloud and data bricks services .
* Build required data pipelines for optimal extraction ,transformation and loading of enriched data from various data sources to data lake using azure and sql technologies .
* Identify ,design and implement internal processes which includes redesigning of data pipelines for greater scalability and optimization.
* Manage and ensure security and privacy of data using technologies to satisfy the business needs.
* Design Development and implementation of Data Quality Management and Governance to Enterprise data lake .
* Work and Collaborate with data stewards including the executive, product and design teams to support their data management and data analytics needs while assisting with data related technical issues

Environment:

*Azure Synapse Analytics ,Azure Purview,Data Bricks ,Tableau, PySpark*

# TxDOT (Texas Department of Transportation), Austin, TX Nov,2016 – Dec 2020

Role: Big Data /Solutions Architect Responsibilities/Achievements:

* Enterprise Information Management roadmap and strategy initiative projects.
* Help the product management team to execute enterprise projects.
* Defined and prototyped Minimally Viable Products (MVP) with Product Owner Advisory.
* POC Development for Enterprise Information Management (EIM) initiatives
* TxDOT Current State Information Management Assessment .
* Enterprise Data Quality and Data Stewardship Models for EIM projects.
* Responsible for design and implementation of enterprise data lake for effective reporting and analytics.
* Developed framework for implementing Enterprise Data Quality Program For TxDOT .
* Lead the Data Quality management program for different data projects across TxDOT.
* Data governance and EIM metadata management, KPI and metric development.
* Involved in development of data standards from TxDOT Chief data management office for effective enterprise data management.
* Revised/Modernized different data management platforms to align with enterprise data strategy

Environment:

*Tableau, Spark , Amazon Web Services (AWS),Snowflake, Informatica BDQ, Hadoop,HIVE*

# SUNTRUST BANK: Atlanta GA Dec 2015 – Sep 2016

Role: Big Data Engineer Responsibilities/Achievements:

* Responsible for designing big data management platform solutions for enterprise data and analytics .
* Responsible for designing data pipelines using ETL for effective data ingestion from existing data management platforms to enterprise data lake.
* Involved in designing different data zones within a data lake for the enablement of various enterprise data capabilities for effective data management and analytics.
* Developed strategy and road map for efficient big data quality program.
* Developed a road map for analyzing structured, semi structured and unstructured data requirements for enterprise data ingestion .
* Involved in data lineage and data reconciliation for movement of data across different zones within a data lake.
* Involved in design and implementation of Change data capture and technical data quality solution for data lake .
* Worked on designing micro and macro solutions for enabling big data products on data lake .

Environment:

*Hadoop, Ab Initio GDE , SAS, Tableau, HIVE, UNIX.*

# EXPRESS SCRIPTS: Franklin Lakhs NJ Mar 2013 – Nov 2015

Role: Data Engineer Responsibilities/Achievements:

* Responsible for data migration (loading business data into production) and streamlining the process using data integration utilities.
* Responsible for running every day incremental and delta load for critical business data to the enterprise data hub.
* Lead the production support team for resolving data issues and anomalies after every incremental load .
* Responsible for reporting business critical metadata to the data owners for better business decisions.
* Designed and streamlined Process Methodologies for different data anomaly categories starting form data issue Identification to resolution using inhouse ETL tool .
* Involved in enhancing the existing ETL data pipeline for better data migration with reduced data issues.
* Responsible for reverse engineering source data using metadata management tools for better data migration and integration .
* Applied SQL tuning/database performance optimization techniques for improved query performance.

Environment:

*Ab Initio GDE, DB2 , Oracle, Teradata, UNIX* .

**CITI Group: Irving, TX Apr -2011 –Feb-2013** Role: Sr Data Analyst Responsibilities/Achievements:

* Worked on CITIGroup Enterprise Master data management solution
* -(CustomerManagement Repository) 360-degree view of CITI customer demographics data.
* Responsible for identification of data domains for Effective MDM Technology Implementation.
* Responsible for defining data standards and data elements mapping from multiple heterogeneous data sources to MDM.
* Responsible for analyzing the different Line of business data to fit into the enterprise master data repository.
* Responsible for data profiling of inhouse and third-party data sourcing to master data hub.
* Worked with ETL and DBA teams for effective data migration and production data issues resolution.
* Designed conceptual, logical and physical data models for effective metadata management.
* Responsible for development and tuning of existing ETL and PL SQL codes for new data requirements.

Environment:

*Oracle , Tera data, Ab Initio Data profiler, Ab Initio GDE, Erwin, IBM Infosphere*

# DATA METRICS SOFTWARE SYSTEMS NJ Oct -08 –Mar-11

Role: Data Analyst Responsibilities/Achievements:

* Responsible for gathering business data requirements for data management projects.
* Responsible for Conducting design walkthroughs with data management teams.
* Responsible for database design and implementation for project requirements.
* Developed complex SQL queries to fetch data from different tables on databases .
* Identified/documented transformation rules for ETL to populate data to data warehouses.
* Worked with a data reporting team to develop mockup reports and presented them to business

Environment:

*Oracle, Erwin, crystal reports*

Education and Certifications

* + Master of Science (MS) in Computer Science Engineering GPA 3.6- 2010 class