**Munikrishnaiah Sundararamaiah**

**Professional Summary:**

Detail-oriented IT professional with over 15 years of experience in strategizing designing & delivering Enterprise Data Warehouses, Business Intelligence & Analytics systems for Financial Industry. Strong Expertise in Big Data enablement that includes Data Architecture, Data Sourcing, Data Cataloging, Data Curation, Data Preparation, Data Blending, Data Provisioning, Data Analysis& Consumption. Skilled in planning, development and execution of strategies that have launched new products, opened lucrative new channels, and grown revenues. Domain experience in banking, healthcare, and retail, with AI and large language model collaboration.

**Achievements:**

* Collaborated with subject matter experts to analyze Credit card fraud scenarios, identify issues, and design solutions, optimizing alert generation for regulatory reporting.
* Designed Spark-based configurable data services for EDP (Enterprise Data Platform), encompassing ingestion, control validation, data quality assurance, standardization, surrogate key management, CDC type 2, job orchestration, audit logging, job lineage, operational control, and data provisioning.
* Developed and deployed an inline Data Quality Engine for a major financial institution, facilitating Regulatory Audits by conducting daily scans of billions of records. Generated actionable evidence of data quality to streamline compliance processes and enhance regulatory adherence.
* Design & implement cloud-native architectures that will allow business requirements to be met with a minimal degree of risk to the organization. Designed security model, data anonymization, multi-tenant support, secured client / internal level API’s strategy.
* Designed real-time messaging architecture for operational auditing, seamlessly integrating mainframe-originated messages with AWS DMS and processing them through Spark Streaming.
* Purge Strategy: Designed and implemented a reusable purge strategy across the bank's infrastructure.
* Design & implemented a robust Python framework that triggers SQL queries, generates 15MB files, and loads them into Snowflake staging for further processing into permanent tables.
* Design and implemented ETL framework that triggers DataStage and Informatica jobs from a UNIX server, performs comprehensive QC checks, and creates DS log files.

**Core Competencies:**

Data Architecture, Design Patterns & Solutions, Data Modeling, ETL/ELT, Big Data Technologies, Cloud Computing and Metadata Management

**Technical Skill Set:**

**Functional Modules :** Finance Health Care, Data Warehousing, Data Modeling & Business Intelligence.

**RDBMS :**Snowflake**,** Netezza, Oracle 11, DB2, My SQL, RedShift, Postgres

**Cloud :** Azure, AWS

**Big Data :** Databricks, Apache Spark, Spark SQL, Hadoop, ADF, AZURE Synapse and AZURE Fabric

**Programming :**UNIX/Linux Shell Scripting, Python, Scala ,Java, Kafka and Debezium(CDC)

**O/S :**Windows NT/2000 Server, HP-UX 11.1, IBM-AIX

**ETL :**DataStage, Informatica

**Scheduling Tools :**Control-M, Autosys, Airflow

**Professional Certifications:**

Microsoft fabric Analytics Engineer

DataBricks Certificated Data Engineer

SnowPro Core

Safe Agile Practitioner

Unix AIX

Google Generative AI Fundamentals

**Professional Experience:**

* Working as Technical Data Architect in Apexon (Gathi Analytics) from Jan 2022 to Till Date
* Worked as Technical Manager in HCL America from May 2010 to Dec 2021.
* Worked as Software Engineer in IBM India from Feb 2007 to Apr 2010.

**Client: Bread Financial**

* Evaluate the existing Technology Landscape, Data Assets, Sources & Capacity, Configuration, ETL, BI, Operating model, Analytics, Pain points, Business Processes, Data Consumption, SLAs, Challenges, Data Management Practices, Organizational Goals, Business Objectives, Strategy & Capability, and Manual processes.
* Develop a strategy for migrating large volumes (TB+) of application and transaction data from On-prem clusters to the Cloud to uphold stringent SLAs and facilitate periodic data reinstatement.
* Assess project requirements, scope, and objectives, establishing key performance indicators (KPIs) to gauge progress. Identify and mitigate risks and issues proactively, ensuring adherence to project timelines through effective communication with stakeholders.
* Developed a solution incorporating machine learning models to implement anomaly detection for both Sales and Applications.
* Design and construct historical timestamping for data within data model tables employing SCD Type-1, SCD Type-2, and SCD Type-4 (Mini Dimensions).
* Design and manage the ideal data pipeline architecture aligned with platform and application needs utilizing
* Databricks, Snowflake, Azure SQL Data Warehouse, and Azure SQL Database on the Azure Cloud. Curate extensive, intricate datasets that fulfill both functional and non-functional business prerequisites.
* Developed a solution for orchestrating intricate enterprise data processing workflows utilizing generic scripts and scheduling tools.
* Collaborate with Bread Business user in gathering the requirements and providing data solutions.
* Lead a team of Data engineers and software Engineers to up level the data quality market platform
* Define the standards and process of how card data move from the on perm to Cloud storage
* Build Anomaly detection models using supervised machine learning Approach to detect the regular feeds abnormities
* Build Databricks notebooks and SQLs required for optimal extraction, transformation, and loading of data from a wide variety of data sources to Marketing Data Mart.
* Established methods and procedures for tracking data quality, completeness, redundancy, and improvement and created strategies and plans for data security, backup, disaster recovery, business continuity, and archiving

**Tech Stack:** Databricks, Snowflake, IICS, Netezza, Azure synapse, Azure SQL Database, Azure Data Factory, Python, SQL.

**Client: USAA**

* Design and develop Snowflake process to push data from on-perm to Snowflake
* Built business case, analytics solutions, performance measurement reporting & automation, predictive and quantitative models from conceptualization to implementation for multi-billion business/network transformation programs
* Build Ingestion services for actively controlling the data ingested into the platform using AWS Glue, Python, Spark, SQS, Lambda, SNS and EMR.
* Work closely with business and technical teams to understand, document, design, develop, code, and test ETL processes
* Built ETL data pipeline and Business reporting solutions using tools like Python, Informatica and tableau.
* Actively involved in Business Requirement meetings, to understand Operational, Analytical and Reporting data needs and converted them to robust IT solutions, adhering with governance standards and Information Architecture
* Built a Serverless architecture using SQS, Glue, Athena, SNS, Redshift and S3 for Data Scientists.
* Performance tuning on the slow running jobs.
* Managed a 6PB+ data warehouse for across enterprise members data (customer 360 view)
* Created a job orchestration process based on AWS Lambda, SQS and Glue.
* Built a generic audit framework for schedule/job notifications and automatic email notifications.

**Tech Stack:** DataStage, AWS Glue, Snowflake, DB2, SQL server, Netezza, UNIX, CONTROL-M, Tableau, ALIP

**Client: Merck Health & Consumer Care**

* End to end responsible for COMPAS data warehousing system maintenance and enhancements.
* Handling and resolving critical business and technical issues.
* Serving as a focal point for communication with all stake holders
* Handling interface and integration issues with other teams
* Created Data warehouse with major Data marts like sales, customers, product, month, Transactional Details.
* Created reports using Business objects for Drill down, Slice and Dice type of reports and deployment for end-users.
* Leading a team of 6, spread across both onsite and offshore.
* Involved in job design to extract, cleanse, and parameterize the jobs to allow portability and flexibility during runtime, to apply business rules and logic at transformation level and load data into data warehousing system.
* Create Architectural Diagrams and Datasheets and submission to Architecture Board for approval.
* Doing unit testing and coordinating with QA and Business teams during the completion of testing cycles in QA and UAT environments.
* Leading the development teams during the development phase and doing the testing and validations in the UAT phase along with the business.

**Tech Stack:** IBM Datastage, Business Objects, Datastage8.1, PLSQL, Oracle 10g and ASP platforms: Linux (RHEL5). Client Platforms Win XP and WIN7

**Client : USAA**

* Leading a team of 8, spread across both onsite and offshore.
* Handling interface and integration issues with other teams
* Performing monitoring and tracking of team activities against the project plan/ schedule and providing status reports
* Building Enterprise data Model including building of P&C, Life and Bank models for IMSM
* Involved in job design to extract, cleanse, and parameterize the jobs to allow portability and flexibility during runtime, to apply business rules and logic at transformation stage and load data into data warehouse.
* Involved in data cleansing in key process.

**Tech Stack:** IBM DataStage 8.101(Administrator, Designer and Director), DB2, Oracle 9i, MSSQL. Servers’ platforms: Linux (RHEL5). Client Platforms Win XP and WIN7.

**Client: IBM India PvtLTD**

* Involved in extracting the data from different data sources like SQL Server and flat files.
* Involved L3 support activity (Direct Customer interactions, Designing and testing the customer complicated scenarios finally deliver the. dsx files to the customers)
* Using multiple stages like Sequential File, FTP enterprise stage, Sort, Merge, Join, Lookup, Filter, Transformer, and Aggregator during ETL development.
* Managing Repository Metadata from DataStage Manager.
* Involved in creating and maintaining Sequencer and Batch jobs.
* Involved in data cleansing in key process.
* Performing Client side and server-side testing for all DS stages.

**Tech Stack:** IBM DataStage 8.101(Administrator, Designer and Director), DB2, Oracle 9i, MSSQL. Servers’ platforms: Linux (RHEL5). Client Platforms Win XP and WIN7.

**Education:**

Postgraduate in University of Austin (McCombs School of Business)

Master of Business Administration (Systems), University of Madras, Chennai.