**Sr. Data Engineer - Azure, Snowflake& DataBricks**

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**Houston TX**

**PROFESSIONAL SUMMARY**

* 16+ years of experience as a Sr Data Engineer /Techno Functional Data lead/Data ingestion Lead/ BI data modeler & transformation developer in various domains like Oil & Gas, Finance, Banking, Logistics, Insurance Brokerage and Manufacturing.
* Experienced in implementing end-to-end Enterprise data warehouse solutions (Data Ingestion, Data Mapping, Transformation and Data loading into BI Data models).
* Hands on experience in creating Snowflake Enterprise data warehouse, Creating various data layers, Databases and Schemas.
* Well versed in Data modeling (Dimensional & Relational) concepts like Star-Schema Modeling, Snowflake Schema Modeling, Fact and Dimension tables.
* Good knowledge in Azure Data cloud, Azure Data Factory, Azure Data Lake storage, Azure Synapse, Azure Analytical services, and Data Bricks.
* As an Azure data engineer, I oversaw implementing the ETL process for loading data from various  
  sources into Databricks tables and Azure Synapse Tables
* Experienced in Metadata management solutions like creating Data Dictionary and Data Ingestion/Quality rules.
* Experienced in data warehouse migration projects to develop and implement data replication, data ingestion and data transformation solutions using Azure Data Factory, Snowflake.
* Good experience working with various API data ingestion and transformation from Salesforce & Workday.
* Well versed experience in creating pipelines in Azure Data Factory using different activities like Move &Transform, Copy, filter, for each, Data bricks etc.
* Good knowledge in JavaScript, Python & R Statistical programming.
* Expertise in Data Mapping and Data Transformation and Data Integration from source systems to target systems using various ETL & data mapping techniques.
* Implemented the data warehousing solution in Azure Synapse Analytics.
* Good experience in gap analysis, data mapping, documenting functional specifications and designs.
* Worked with various databases with structured and unstructured data from Salesforce, Workday, Oracle, SQL Server, Parquet, JSON, and XML file data.
* Extensive experience in writing and tuning complex sub queries, SQL, stored procedures, functions, and triggers.
* Have strong Analytical, Quantitative, Logical, Assessment and Interpretation skills.
* Performed Debugging, Troubleshooting, Modifications and Unit testing of integration solutions.
* Experienced in implementing various methodologies like Agile, Kanban, SDLC and Scrum.

**TECHNICAL SUMMARY:**

**Cloud Computing:** Microsoft Azure Cloud technologies, DataBricks, Snowflake Enterprise Data warehouse, Workday and Salesforce.

**Azure Cloud:** Azure SQL Database, Azure Data Lake, Azure Data Factory (ADF), Azure Synapse, Azure Analysis Service (AAS), Azure Blob Storage.

**Programming:** Python, Pyspark, Pandas, Java script and T- SQL

**Education:** Bachelor’s in computer science, Osmania University, 2001

**Certifications**: Hands on Essentials: Data Warehousing

**Professional Experience:**

**Client: Exxon Mobil (May 2023 – Present) Spring, Texas, United States · Remote**

**Databricks/Azure/Snowflake - Wells Data Foundation Project**

**Responsibilities:**

* Building Wells Data Foundation solution to capture all kinds of data related to Wells Sand Control.
* Create various data layers (Ingestion Layer, Enriched Layer, Trusted Layer and Published layer) in snowflake as per the designed architecture.
* Data ingestion from various data sources like Geomechanics, Circus Log, Wire Data from blobs and JSON files using Databricks /Azure/ Snowflake technologies.
* Develop Databricks notebooks for Data Ingestion & Curation using Pyspark and Pandas.
* Data Mapping from Snowflake to Databricks Delta tables.
* Implemented the data warehousing solution in Azure Synapse Analytics.
* Responsible for mapping data from both internal and external sources for ingestion
* Maintaining the data lineage and ensuring that the data management standards are met.
* Job Automation of Databricks Notebook as per the required frequency to Ingest & Curate data.
* Working with reporting teams to provide required transformation and curation of data for reporting.
* Compared Snowflake on Azure vs Azure Synapse.

**Tools & Technologies:** Snowflake, Data Bricks, Microsoft Azure, Python, Synapse, PySpark, PySQL, Snow SQL, Azure DevOps, Github.

**PROFESSIONAL EXPERIENCE:**

**Client: Vertex INC.(Remote) (July 2021 – Feb 2023)**

**Azure/Snowflake - Enterprise Data warehouse Project**

**Responsibilities:**

* Enterprise data warehousing solution using Azure / Snowflake technologies.
* Build Data warehouse solution using Azure Data Factory to ingest data from various sources like Salesforce, Workday, Oracle, MDM to snowflake database.
* Create various data layers (Replication, Raw Layer, Fusion, and Published layer) in snowflake as per the designed architecture.
* Develop stored procedures for data transformation in Snowflake
* Define virtual warehouse sizing for Snowflake for different type of workloads.
* Design and code required Database structures and components
* Predominantly worked on Azure Synapse Analytics to design end-to-end Pipelines, spark  
  applications using notebooks, and loaded the data into dedicated SQL Pools
* Responsible for mapping data from both internal and external sources for ingestion
* Maintaining the data lineage and ensuring that the data management standards are met.
* Performing rigorous data analysis and data discovery and data profiling.
* Designed and implemented multiple dashboards for internal metrics using Azure Synapse -  
  PowerPivot & Power Query tools.
* Developing test scripts in SQL to check the data integrity from the databases.
* Performing SQL queries in the SQL Developer and ensured Correct Data Retrieval.
* Working closely with the Data Warehouse and Business Intelligence teams to test data and load processes.

**Tools & Technologies:** Snowflake, Azure Data Factory, Synapse , Workday, Salesforce, Oracle, MDM, Adaptive, Power BI, cData replication.

**Client: EMF/Datavail. Denver,Colorado (Feb 2021 – July 2021)**

**Azure/Snowflake Sr. Data Engineer**

**Responsibilities:**

* Built data warehousing solution using Azure / Snowflake technologies.
* Design and Build Framework using Azure Data Factory pipelines to ingest data from various sources to snowflake database.
* Build the Logical and Physical data model for snowflake as per the changes required
* Develop stored procedures/views in Snowflake
* Define virtual warehouse sizing for Snowflake for different type of workloads.
* Design and code required Database structures and components
* Experience working with Azure BLOB and Data lake storage and loading data into Azure SQL  
  Synapse analytics (DW)
* Did a complete migration project from end-to-end from on-premise to Azure cloud by developing  
  the ELT processing framework using Azure Synapse Analytics.
* Created complex queries based on the business requirement using PySpark/SparkSQL in Azure  
  Synapse Spark pools
* Responsible for mapping data from both internal and external sources for ingestion
* Maintaining the data lineage and ensuring that the data management standards are met.
* Performing rigorous data analysis and data discovery and data profiling.
* Developing test scripts in SQL to check the data integrity from the databases.
* Performing SQL queries in the SQL Developer and ensured Correct Data Retrieval.
* Working closely with the Data Warehouse and Business Intelligence teams to test data and load processes.

**Tools & Technologies:** Azure Cloud, Azure Data Factory, Synapse , Snowflake, SQL server, Oracle, Snowflake functions & Stored Procedures.

**Client: BBVA , Birmingham, Alabama (May 2020 – Jan 2021)**

**Data Lake/Azure/Snowflake**

**Responsibilities:**

* Develop Data Lake storage solution for Datio project using Azure Data factory Pipelines.
* Build and developed data strategy and road map for Analytics stream.
* Design and Build Framework using Azure Data Factory pipelines to ingest data from various sources and various formats like json, xml, csv, MySQL.
* Design and implement database solutions in Azure SQL Data Warehouse, Azure SQL
* Manage Azure Data Lakes (ADLS) and Data Lake Analytics and an understanding of how to integrate with other Azure Services.
* Performed ETL using Azure Data Bricks. Migrated on-premises Oracle ETL process to Azure Synapse  
  Analytics
* Responsible for mapping data from both internal and external sources for ingestion into Azure data lake.
* Maintaining the data lineage and ensuring that the data management standards are met.
* Performing rigorous data analysis and data discovery and data profiling.
* Responsible for supporting Legacy data marts and the tasks to decommission them as functionality is moved to the Azure Data environment.
* Developing test scripts in SQL to check the data integrity from the databases.
* Performing SQL queries in the SQL Developer and ensured Correct Data Retrieval.
* Working closely with the Data Warehouse and Business Intelligence teams to test data and load processes.

**Tools & Technologies:** Azure Cloud, Azure Data Factory, Azure Data Lake, BLOB Storage, Snowflake, SQL server, Oracle, AZURE Data bricks, UNIX Shell Scripting & Python.

**Client: McDermott, Houston, Texas (Aug 2019 – Apr 2020)**

**Azure Engineer**

**Responsibilities:**

* Design and implement database solutions in Azure SQL Data Lakes, Azure SQL
* Architect & implement medium to large scale BI solutions on Azure using Azure Data Platform services (Azure Data Lake, Data Factory, Data Lake Analytics, Stream Analytics, Azure SQL DW, HDInsight/Databricks, NoSQL DB)
* Design & implement migration strategies for traditional systems on Azure (Lift and shift/Azure Migrate, other third-party tools
* Develop dashboards and visualizations to help business users analyze data as well as providing data insights to upper management with a focus on Microsoft products
* Develop conceptual solutions & create proof-of-concepts to demonstrate viability of solutions.
* Architect and implement ETL and data movement solutions using Azure Data Factory, SSIS create and run SSIS Package ADF V2 Azure-SSIS IR.
* Design and implement database solutions in Azure SQL Data Warehouse, Azure SQL
* Migrate data from traditional database systems to Azure databases

**Tools & Technologies:** Azure Cloud, Azure Data Factory, Azure Data Lake, BLOB Storage, SQL server, Teradata Utilities, UNIX Shell Scripting, AZURE PowerShell, Data bricks & Python.

**FedEx, Memphis, TN (Apr 2017 – July 2018)**

**Project: International Shipments/Customer Experience/Business Intelligence**

**Role: Sr Data Engineer & BI Analytics**

**Responsibilities:**

* Implement ad-hoc analysis solutions using Azure Data Lake Analytics/Store, HDInsight.
* Design and implement database solutions in Azure SQL Data Lakes
* Recreating existing application logic and functionality in the Azure Data Lake, Data Factory, SQL Database and SQL data warehouse environment. experience in DWH/BI project implementation using Azure DF
* Architect and implement ETL and data movement solutions using Azure Data Factory, SSIS create and run SSIS Package ADF V2
* Design and implement database solutions in Azure SQL Data Warehouse, Azure SQL
* Engage with business users to gather requirements, design visualizations, and provide training to use self-service BI tools.
* manage Azure Data Lakes (ADLS) and Data Lake Analytics and an understanding of how to integrate with other Azure Services.
* Migration of on-premises data (Oracle/ SQL Server/ DB2/ MongoDB) to Azure Data Lake Store (ADLS) using Azure Data Factory (ADF V1/V2).
* Develop dashboards and visualizations to help business users analyze data as well as providing data insight to upper management with a focus on Microsoft products like SQL Server Reporting Services (SSRS) and Power BI.

**Tools & Technologies:** Azure Cloud, Azure Data Factory (ADF v2), Azure functions Apps, Azure Data Lake, BLOB Storage, SQL server, Teradata Utilities, UNIX Shell Scripting, AZURE PowerShell, Data bricks & Python.

**Arthur J Gallagher, Chicago, IL (June 2011 – Nov 2013)**

**Project: Data Resource Group**

**Role: Sr. BI &BA**

**Responsibilities:**

* Design and develop data mapping, data transformation and data integrity to build Data ODS/Warehouse/Data Marts for generating business Analytics and Reports
* Creating Informatica mappings to load data.
* Transformation of data and applying Business logics and load the same into Data Warehouse and Data Marts.
* Created Data Flow diagrams, Data mapping and data transformation documents.
* Coordinate with IT and business to understand the business requirements.
* Run queries, extract data on periodical basis and upload them into Production.
* Design real time data connection using information links in Spotfire to connect oracle data.
* Performed data validation and testing reports on regular basis after every refresh of data.

**Tools & Technologies:** Informatica, SSIS, TeraData, Oracle, SQL Server and Tableau.

**OTIS Elevators, Hartford, Connecticut (Oct 2005 – May 2011)**

**Project: Inter Company Management System**

**Role: SQL & BI Developer**

**Responsibilities:**

* Creating Business requirements and functional documents using various methods, performing gap analysis to determine where current solution is not filling user needs.
* Worked with business users to re-engineer current processes, documenting As-Is and To-Be states.
* Worked with PM to determine appropriate project scope and assess risks.
* Helped team move to Agile for last 6 months of engagement.
* Communicating the requirements to the team members effectively without any ambiguity.
* Coordinating with the development team and provide clarity on the requirements.
* Worked with team to evaluate SSRS as an alternative to building a reporting solution.
* Performed various black box testing Methodologies Like functional testing, Compatibility Testing, Usability Testing and Regression testing in both the web and mainframe environments.
* Conducted UAT and provided post go live support.

**Tools & Technologies:** C#.Net, ASP.Net, MS SQL Server 2005, SSRS, IIS 6.0, TFS, HPQC, Windows XP.

**Project: NORAD Reporting**

**Role: IT Analyst/Developer**

**Responsibilities:**

* Understanding the business functionality and develop SRS and Design documents.
* Involved in Project planning and ETL and Reports development.
* Involved in KT sessions with the technical teams.
* Creating logical and physical model for analytical databases.
* Developing T-SQL stored procedures, functions, triggers, views, SQL Debugging.
* Optimizing SQL Server performance.
* Communicating the changing requirements from business to technical teams.

**Tools & Technologies:** C#.Net, ASP.Net, MS SQL Server 2008, IIS 6.0, SSIS, SSRS.