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# Seshu B

# Azure Data Engineer

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**PROFESSIONAL SUMMARY:**

Experienced Database Professional with demonstrated experience of working in the Information Technology industry focusing on **Azure data Engineering, Snowflake, Oracle APPS EBS, Oracle CORE, Postgres,** Database Management, Data modeling, Administration & Consultation. In addition to Professional skills in Cloud Technology, Business Process, Requirements Analysis, Hardware & Operating Systems. Seeking opportunities to utilize my skills as Database Manager, ETL Consultant and Project/IT Manager in growing National Wide Company.

**TECHNICAL SKILLS:**

**Cloud Services:** Azure Data Factory (ADF), Azure Databricks, Azure Synapse Analytics, Snowflake, Data Warehousing

**Tools:** T-SQL, MS Office, Visual Studio, SQL Server Management Studio, Oracle Enterprise Manager 2.1, Oracle Applications Manager.

**Utilities:** SQL\*Loader, TOAD, Import & Export, ODBC, SQL Station, DB-Visualizer, PGAdmin

**Operating Systems:** Linux AS/ES 3/4/5/6/7/8 Sun Solaris 10.0, Windows NT 4 & Windows 2000, 2003

**Languages:** C, SQL, PL/SQL, Perl, Python

**PROFESSIONAL DEVELOPMENT/AFFILIATIONS:**

**Occupation Certifications:**

DP-203 Azure Data Engineer

SNOWFLAKE SnowPro Core Certification

1Z0-060 Oracle 12c Database Administrator Certified Professional

Certified oracle 11i install, Patching, maintain (IZO-233)

Oracle 10g Database Administrator Certified Associated, Certified Professional

**Occupation Training:**

Oracle 10g DBA, Oracle 10g RAC, WebLogic Administration, AWS Associate Architect, Azure Architect AZ-300 and Azure fundamentals AZ-900, Snowflake Warehouse, AZ-203- Data Engineer.

* 16+ years of Exceptional leader talented in Microsoft Azure, Snowflake Administration and Oracle Technologies
* 5+ years of development experience on cloud platforms Azure and Snowflake.
* Lead Data Architect role within the solutions architecture team, driving architecture designs for Data Lake, data management, and data governance projects.
* Spearheaded projects involving Snowflake, implementing data lakes and repositories in Snowflake to meet business requirements.
* Provided expertise as an experienced data architect, ensuring design requirements align with team standards and best practices.
* Hands-on experience in Azure Synapse Analytics Services – **Azure Data Lake Store** (ADLS**), Azure SQL DW**(Dedicated SQL Pool), **Azure Data Factory** (ADF), **Azure Data Bricks** (ADB)
* Orchestrated data integration pipelines in ADF using various Activities like Get Metadata, Lookup, For Each, Wait, Execute Pipeline, Set Variable, Filter, until, etc.
* Have knowledge on Basic admin activities related to ADF like providing access to ADLs using service principle, install IR, created services like ADLs, logic app etc.
* Develop, maintain, and optimize data pipelines to Extract, Load and Transform large datasets from diverse sources into data warehouse system.
* Expertise on working with databases like Azure SQL DB, Azure SQL DW, Oracle RDBMS
* Experience in building the data pipeline by leveraging the Azure Data Factory.
* Expertise in Data Extraction, Transforming and Loading (ETL) between Homogenous and Heterogeneous Systems.
* Experience in building the Orchestration on Azure Data Factory for scheduling purposes.
* Ensure data consistency, accuracy, and reliability throughout the ETL process
* Develop and maintain ARM templates in JSON format to define the infrastructure and configuration of Azure resources, ensuring consistency, scalability, and repeatability across environments.
* Integration of ARM Templates into CI/CD Pipelines for Automated Azure Resource Management.
* Experience in building ETL (Azure Data Bricks) data pipelines leveraging Python PySpark, Spark SQL.
* Extensively worked on Azure Databricks using Python PySpark, Spark SQL coding in producing professional class analytics, dashboards, and reports visualization.
* Implement Azure Data bricks clusters, notebooks, jobs, and auto scaling.
* Implemented the PL\SQL Stored procedure for upsert logic to avoid the duplicate data on Databrick’s & on Dedicated SQL pool.
* Experience in Developing Spark applications using Spark - SQL in Databricks for data extraction, transformation and aggregation from multiple file formats for transforming and analyzing the data to uncover insights into the customer usage patterns.
* lay the foundation for expertise in utilizing Snowflake's architecture for effective data management.
* Able to provide recommendation on Snowflake best practices for management, monitoring and optimization.
* Designed, Implemented Clustering/Partitioning to ensure high response time, quick throughput in Snowflake.
* Ingested data from different external sources using external/internal stages into Snowflake.
* Integrated Snowflake with various cloud platforms like Azure, AWS, GCP.
* Processed various forms (CSV, JSON, XML, TSV etc) of data, ingested into Snowflake.
* Configured Continuous Data Capture pipelines in Snowflake by using Tasks, Streams, Snow pipe.
* Recovered/Restore lost/historical data in Snowflake using Time travel and Failsafe methods.
* Provided project teams with required set of production data of testing purpose with 'Zero Copy Cloning' method.
* Implemented data masking strategies to protect sensitive information.
* Developed SQL expressions and masking policies to protect sensitive information while maintaining data usability.
* Build scalable, fault-tolerant batch and real-time data pipelines in Snowflake to power internal applications, operational workflows, and business intelligence platforms.
* Implemented summary objects like Dynamic Tables, Mat Views to help save warehouse snowflake credits in long term.
* Implemented and optimized Snowflake features such as Virtual Warehouses and Data Sharing to enhance scalability and collaboration.
* Design and implement efficient and scalable data models that align with business requirements, ensuring data integrity and performance.
* Identify and resolve data quality issues, ensuring accuracy, reliability, and consistency of the data infrastructure.
* Conducted in-depth analysis of performance data to identify patterns, anomalies, and potential bottlenecks affecting system responsiveness
* Collaborated with developers and stakeholders to understand query requirements and usage patterns both on application and database point of view.
* Robust monitoring solutions to continuously track Oracle database performance metrics, including query execution times, resource utilization, and throughput.
* Utilized Oracle's query execution plans, profiling tools, and SQL tuning techniques to optimize poorly-performing queries, reducing execution times and improving overall database responsiveness
* Implemented Oracle strategic indexing and table partitioning strategies to enhance data retrieval efficiency and reduce contention, addressing specific bottlenecks related to data access
* Conducted thorough examinations of database server resources, including CPU, memory, and I/O usage
* Successfully identified and resolved critical bottlenecks, resulting in a notable improvement in overall database performance.
* Updating self-knowledge with emerging trends, technologies, and best practices in data engineering, data modelling
* Utilized Jira and Confluence regularly for project tracking and collaboration.
* Played a key role in Azure data engineering projects, designing and implementing scalable data solutions.
* Led real-time troubleshooting efforts, identifying and resolving issues to ensure high availability and reliability.
* Collaborate with cross-functional teams to meet project deadlines and deliver results in line with business objectives.
* Excellent communication skills with excellent work ethics and a proactive team player with a positive attitude.
* Happy to work with the team who are in middle of the road with some Big Data challenges for both on-prem and cloud, Involved in production support activities.
* Led database and cloud administration and database performance tuning efforts to provide scalability and accessibility in a timely fashion, provide 24/7 availability of data, and solve end-user reporting and accessibility problems.

**PROFESSIONAL EXPERIENCE**:

**Schindler, New Jersey May2022 – Till date**

**Azure Data Engineer**

* Implement ADF operations and deployment into Azure for moving data from on-premises into cloud.
* Create pipelines in ADF using linked services to Extract, Transform and Load data from multiple sources like Azure SQL, Blob storage and Azure SQL Data warehouse.
* Design & implement migration strategies for traditional systems on Azure.
* Worked on Azure Synapse suite: Azure SQL Database, Azure Data Lake (ADLS), Azure Data Factory (ADF) V2, Azure SQL Data Warehouse (Dedicated SQL Pool), Azure Blob Storage.
* Implemented seamless data transfer from SQL Managed Instance to Azure Data Lake Storage using Azure Data Factory, optimizing ETL processes and ensuring efficient data movement in a cloud environment.
* Implemented data transformation processes using Data Flow to clean, reshape and aggregate data within Azure Data Factory.
* Stored and managed large volumes of structured and unstructured data in Azure Data Lake Storage, ensuring data availability, reliability, and security.
* Implemented incremental loading strategies to efficiently handle updates to existing data in Dataflow Azure Data Factory.
* Configured parallel processing and partitioning strategies for large-scale data transformations
* Utilizing Azure services like Azure Blob Storage, Azure SQL Database, and Azure Data Lake Storage in conjunction with ADF
* Design and implement end-to-end data solutions (storage, integration, processing, visualization) in Azure
* Experience managing Azure Data Lakes (ADLS) and Data Lake Analytics and an understanding of how to integrate with other Azure Services.
* Good Understanding of Azure in terms of usage and troubleshooting to design and develop secure access to objects in Azure resource with Role-Based Access Control (RBAC)
* Experience in building ETL (Azure DataBricks) data pipelines leveraging Python PySpark, Spark SQL.
* Extensively worked on Azure Databricks using SQL & PySpark python coding in producing professional class analytics, dashboards, and reports visualization.
* Experience in Developing Spark applications using Spark - SQL in Databricks for data extraction, transformation
* Developing Spark (PySpark, SQL) notebooks to transform and partition the data and organize files in ADLS.
* Implement Azure Data bricks clusters, notebooks, jobs, and auto scaling
* Databricks for data extraction, transformation and aggregation from multiple file formats for transforming and analyzing the data to uncover insights into the customer usage patterns.
* Implemented row-level security features like 'Row Access Policy' to ensure data protection.
* Collaborated with security teams to establish and enforce access control policies to meet regulatory and compliance requirements.
* Design for data auditing and data masking, data encryption for data at rest / in transit
* Migrating the ADF code using ARM Templates into CI/CD Pipelines using Agile life cycle process
* Migration of a critical Databricks repository from DEV to UAT and PROD, ensuring seamless transition and minimal disruption to workflows.
* Ensured code quality and reliability by implementing automated testing and code review processes within the CI/CD pipeline

**AT&T, New Jersey Oct 2018 –May2022**

**Data Engineer/Snowflake Administrator**

* Migrated oracle databases from On-premises to AZURE cloud.
* Support and Maintenance of 11gR2, 12c & 19c standalone and RAC on different Operation System flavors.
* Continuously track Oracle database table and view for performance metrics, including query execution times, resource utilization, and throughput.
* Analysis of performance and potential bottlenecks affecting system responsiveness while running the critical jobs execution
* Collaborated with developers and stakeholders on new objects, view, code and query migrations to database
* Reviewed and fine-tuned Oracle database configuration parameters to align with the specific workload requirements.
* Implemented changes to memory settings, caching, and other configuration parameters to optimize database performance under varying workloads.
* Implemented partitioning on big tables where order coming on daily bases and strategies to enhance data retrieval efficiency and reduce contention bottlenecks related to data access
* Identified and resolved critical bottlenecks, resulting in a notable improvement in overall database performance.
* Expert in tuning the SQL queries to improve performance of the system
* Performed logical and physical data structure design and DDL generation to facilitate the implementation of database tables and columns out from Oracle DB schema environment using Erwin.
* Create and manage snowflake multiple accounts across the Organization.
* Extensive experience as Snowflake DB administration in Design optimal Architecture, manage account, Users.
* Good Understanding on snowflake data replication for data sharing across accounts and for failover scenarios
* Able to provide recommendation on Snowflake best practices for management, monitoring and optimization.
* Good Understanding of Snowflake ODBC, JDBC drivers, SnowSQL in terms of usage and troubleshooting
* Be able to design and develop secure access to objects in Snowflake with Role-Based Access Control (RBAC)
* Scaled up/out Snowflake warehouses as and when needed to avoid query queuing.
* Tracked/Analyzed the utilization of resources such as compute, storage, and virtual warehouses by putting limits with Snowflake 'Resource Monitors'.
* Designed and implemented Snowflake replication across multiple instances for efficient and reliable data distribution.
* Practical knowledge of Time Travel & Cloning
* Create pipelines in ADF using linked services to extract, transform and load data from multiple sources like Azure SQL, Blob storage and Azure SQL Data warehouse.
* Experience managing Azure Data Lakes (ADLS) and understanding of how to integrate with other Azure Services. Proficient in leveraging Databricks features including Broadcast Services for efficient data distribution and optimization of cluster performance.
* Utilized Databricks Add, Rename, Drop Columns, CASE, explode, pos-explode, handling Null function to handle complex data structures such as arrays and maps during ETL processes, enabling streamlined data
* Databricks DBUtils command for programmatically accessing files, managing configurations, and interacting with external systems within the Databricks environment.
* Configured the necessary connectivity to access Dedicated SQL Pool environment tables to access from workspace notebook of databricks environment.
* Implemented partitionBy feature in Databricks to partition large datasets based on specific columns to enable faster data retrieval and improved query performance in Apache Spark applications.

**Supreme Committee for Delivery & Legacy Aug 2014-Sep 2018**

**Lead Oracle DBA**

* Implementation and support of oracle EBS apps R12.2 on IBM AIX & OEL operating system flavors
* Implementation and support of postgres Database environments on Linux environments
* Configure and managing Data guard Disaster Recovery, golden gate for replication between databases.
* Configured DMZ External access for I-Recruitment agency access on EBS application.
* Added second applications node to EBS environment and enabled the load balancing on EBS R12 application.
* Application DR configuration using RSYNC for Primary internal node to Standby application node.
* Support and Maintenance of 11gR2, 12c & 19c standalone and RAC on different Operation System flavors.
* Rich exposure in maintaining and implementation in Oracle EBS Apps, Oracle Core, Oracle Golden Gate, OEM Grid, Data Guard, Oracle database platform migration, migration from on-premises to Cloud and Web logic administration and coordinating with stakeholders on the customer side.
* EBS Platform Migration from HP-UX to OLE6 Linux Environment (12.1.3)
* OLM (Oracle Learning Management) configured on R12.2 using web logic for user training and learning.
* Upgraded, Migrated Databases from different versions & different environments, did cross platforms migrations.
* Installation of Fusion Middleware Web logic and configured of OrgChart manager server, Content manager services.
* Oracle Fusion Middleware WebLogic Server 11g Administration & Migration.
* Configured the data guard standby environment between RAC to RAC Standby and RAC Standalone Standby

**American Express Apr 2010 –Sep 2014**

**Oracle Apps Analyst**

* Managed Team of DBAs categorized of Administration, Application, Operation, Production, Change Management, On-call support and performance optimization.
* Worked closely with Production, Development, System test & Information security Teams on functional, technical and network issues.
* Managed all 24/7 the Business Enterprise level Oracle 12c (Multitenant ‘CDB, PDB’)/11g/10g database systems installed on Linux, Solaris, Windows. & Developer 6i – 11g.
* Administrated Oracle 11g RAC/ASM over Red-hat Linux Servers
* Designed & implemented a Disaster Recovery, Automatic backup & recovery procedures.
* Implemented “RMAN/Flashback/Data pump” for Backup and Recovery solutions. Used RMAN for Hot/Cold/Logical backups and recovery including Point in time recovery & crash recovery. Configured RMAN cronjobs for backup automation in lower end environments.
* Developed & Optimized Automated OS Shell Scripts to increase the operational efficiency (Bash, Korn, C-shell).
* Implemented procedures to manage historic optimizer statistics to tune the database and help diagnose problems with changing execution plans.
* Monitored overall database health & performance by configuring OEM Grid control for monitoring to manage and automate the alerts based on thresholds.
* Performed performance tuning of the database for the accepted level using Broad-brush approach (tuning of Design, Operating system, Database, Instance, Disk I/O and Application).

**Polaris Aug 2007 –Mar 2010**

**APPS Staff Consultant (Oracle Apps Administrator)**

Worked on the ERP Project during this period, & I did the following:

* Oracle ERP (R11.5 + R12) Multi-Lingual + Multi-Org Installation and Patching & Cloning on Linux & Windows. (Production, Test, Vision)
* Oracle HRMS localizations to meet the needed Legislations (Europe, United States, France & UAE)
* Created users profile definition / access permissions along with security matrix requirements.
* Upgraded oracle database from 9i to 11gR1, 10gR2 to 11GR2, Migrated the database from 32 bit to 64-bit OS
* Designed & implemented OATM on 11i EBS 10g Database for easy database administration.
* Applying the patches using opatch on DB nodes on on-premises servers based on requirement.
* Export and import of data from production database to test and dev instances.
* Monitoring Database performance by using ADDM, ASH, AWR, TKProf, and Explain plan.
* Designed and created schemas as per the development team requirements.
* Reorganizing databases to avoid disk rotation for maximum performance.
* Creating new users and manage privileges and monitor user access to the databases.
* Identifying the staled objects and running the gather stats on tables & schemas
* Administered the cluster databases using crsctl and srvctl utilities.

**EDUCATION**

Master of Computer Applications (MCA) in 2006 from Osmania University.

Bachelor of Computer Applications (BCA) in 2003 from Osmania University.