

Adersh A

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Profile

AWS Certified Data Engineer with 3.7 years of experience in the healthcare domain. Skilled in designing and managing cloud-based data platforms, including data lakes and data warehouses. Proficient in optimizing ETL workflows, analyzing transactional data, and delivering scalable, reliable, and efficient data solutions.

Skills

AWS Cloud | Databricks | PySpark | Python | SQL

Experience

Cognizant Technology Solutions India Pvt. Ltd. |Data Engineer

2021/10 – present | India

National Data Warehouse(NDW) Modernization

Client: Blue Cross Blue Shield(BCBS) | Role: Data Engineer

Responsibilities :

- Involved in developing batch and near realtime data ingestion pipelines in AWS to process data from IBM database to implement data migration.
- Developed and optimized SQL queries for target system compatibility, implemented business logic transformations, and performed complex queries for metadata analysis and root cause validation.
- Actively involved in developing key data pipeline to process (~500TB) of one time data from on-premise systems using multiple loading strategies using AWS DMS handling file formats such as CSV,JSON and Parquet.
- Implemented an even driven automated data migration using AWS lambda functions, Cloudwatch, SNS and EventBridge for seamless orchestration and monitoring.
- Designed and developed robust data testing frameworks to ensure data accuracy and consistency: developed a PySpark-based unit testing framework in Databricks, and built an automated data validation framework using Python integrated with AWS Glue, Lambda, S3, Athena, EventBridge, and SNS.
- Worked with AWS Glue ETL jobs to leverage Apache Hudi data management framework to reconcile incremental data on top of S3 to provide a reliable transactional data lake.
- Automated reconciliation data stats ingestion using AWS Glue Crawler, Data Catalog and S3, enabling real-time querying through AWS Athena.
- Designed and implemented automated email reporting using Amazon SES, integrating AWS Lambda and Eventbridge for trigger based execution and scheduled delivery with cron expressions.
- Collaborated with Devops, Data architects and QA to deploy AWS resources using CloudFormation templates and conducted knowledge transfer sessions for downstream teams.
- Worked in an Agile environment using Jira for sprint planning, task tracking, and collaboration.

B2G Multihop Data Ingestion & Reporting

Client: Molina Healthcare | Role: Developer/Data Engineer

Responsibilities :

- Designed and implemented a scalable Medallion Architecture on Databricks lakehouse to organize and transform raw data into Delta tables(external) with optimized data storage, efficient querying, and ACID-compliant for downstream BI reporting using.
- Developed a reusable data ingestion framework to automate data movement and transformation across different layers using Delta Lake and Built PySpark-based ETL pipelines to process, clean, and enrich data using Databricks notebooks and jobs.
- Implemented Databricks AutoLoader to enable incremental data ingestion, automatically detect new files arriving in cloud storage, and process them efficiently into the Medallion layers.
- Deployed the entire workflow with Azure DevOps CI/CD pipelines to enable version control, automated deployment and configured Autosys scheduler to trigger the execution of end-to-end jobs in a timely and reliable manner.

Technologies Used

Cloud platofrms: **AWS, Databricks**

Frameworks: **Apachi Hudi, Delta Lake, Pyspark**

AWS Services: **DMS, Lambda, S3, Athena, Redshift, Glue, SNS, Eventbridge, CloudWatch, VPC, IAM..**

Azure: **ADLS, Pipelines, Repos**

Database: **IBM DB2, MS SQL Server**

Language: **Python, SQL**

Certificates

- AWS Certified Solutions Architect – Associate
- AWS Certified Cloud Practitioner
- SnowPro Core Certification

Education

Bachelor of Technology - College of Engineering Trivandrum, <i>Completed Industrial Engineering with 7.55 cgpa</i>	2017/08 – 2021/07
Higher Secondary - S.N.M HSS. Purakkad, <i>Completed higher secondary education with 92%</i>	2015/06 – 2017/03