Ganesh Chandra Meesala

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Professional Summary

AWS Data Engineer with 3+ years of experience designing, developing, and optimizing large-scale ETL pipelines and big data solutions on AWS. Proficient in AWS Glue, Amazon S3, Redshift, Lambda, and Athena, with strong expertise in PySpark, Python, and SQL. Skilled in building data lakes, orchestrating workflows, ensuring data quality, and delivering high-performance analytics solutions. Proven track record of reducing processing times, optimizing costs, and enabling data-driven decision-making.

Technical Skills

Programming: Python, PySpark, SQL, Pandas

Databases & DataWarehouses: Oracle, SQLServer, Postgres, Sybase, Iceberg, DuckDB

AWS Services: AWS Glue, S3, AWS Redshift, Lambda, Athena, Lake Formation, EMR, API Gateway, DMS, AWS QuickSight

Data Engineering: SnowFlake, DBT, ETL, Data Lakes, Data Modeling, Data Quality, Orchestration, Data Warehousing

Workflow & Streaming: AWS Step Functions, Apache Airflow, Kafka

Visualization & Tools: Power BI, Git, GitHub, Docker, Terraform, Tableau

AI Platforms: Open AI, Cursor

Scripting: Bash (Linux), Powershell

Work Experience

Cognizant Technology Solutions — Program Analyst | Nov 2023 – Present

- Architected and deployed scalable ETL pipelines using AWS Glue, PySpark, and S3 to process and transform 500K+ files into curated datasets, achieving 99.9% accuracy and reducing delivery time from 38 to 8 hours (79% improvement).
- Designed and implemented AWS Glue workflows with triggers for parallel processing, eliminating 100% manual intervention and improving pipeline reliability.
- Optimized Sybase-to-Redshift migration by integrating AWS DMS and Glue ETL, reducing query execution time by 60% and enabling near real-time reporting.
- Established AWS Lake Formation permissions, IAM policies, and encryption at rest/in transit to ensure data security and compliance.

- Collaborated with analytics teams to deliver Athena-based query solutions, cutting ad-hoc report generation from hours to minutes.

Cognizant Technology Solutions — Program Analyst Trainee | Mar 2023 – Nov 2023

- Built AWS Glue jobs and Lambda functions to automate ingestion from multiple sources into S3 and Redshift, processing over 7M records with high accuracy.
- Developed reconciliation frameworks in Glue and Athena to validate financial data, ensuring 100% consistency across systems.
- Replaced 40+ legacy SQL scripts with PySpark Glue jobs, reducing reporting time from 4 hours to 30 minutes (87.5% improvement).
- Created serverless APIs using AWS API Gateway and Lambda for on-demand data retrieval by business teams.

Cognizant Technology Solutions — Intern | May 2022 – Sep 2022

- Developed Python and PySpark scripts on AWS EMR to replace 50+ Informatica transformations, improving ETL efficiency by 60% and reducing dependency on legacy systems by 80%.
- Implemented cost optimization strategies for EMR clusters, reducing monthly spend by 20%.
- Automated data quality checks using AWS Glue and SNS notifications for anomalies.

Personal Projects
- DataMesh

    Built a **Natural Language to SQL engine** using **OpenAI, PySpark, and Spark SQL** to query data from **databases and cloud storage**.

    Implemented a **data discovery and retrieval layer** for structured/unstructured files, improving **ETL and data pipeline automation**.

    Optimized **distributed query execution** with **Apache Spark**, ensuring scalability and performance on large datasets.

- Spotify-to-YT Player (GitHub)

    Multi-threaded Python tool to map Spotify playlists to YouTube playback; processed 800+ songs in 55 seconds.

Education
- Bachelor of Technology (ECE) Gayatri Vidya Parishad College of Engineering

Achievements
- Rising Star Award (2024) — Saved $18,000 annually by optimizing senior engineer role
- Champion of Hyderabad (2024) — Recognized for technical performance and team leadership