Murali Munireddy

Software Engineer | Data Engineering & Analytics Solutions, AI

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Summary

Experienced Data Engineer with 4+ years of expertise in developing scalable, production-grade data pipelines and analytics solutions across AWS and on-premise environments. Skilled in Spark, PySpark, Python, SQL, and AWS Glue with strong experience in ETL pipeline optimization, secure coding, and data lake architectures. Adept at collaborating within Agile teams to deliver high-quality software solutions, ensuring operational stability and meeting critical business requirements.

Professional Experience

EPAM Systems, Inc. – Bangalore (Client: Goldman Sachs Group, Inc.)
Data Software Engineer | Dec 2024 – Present

- Engineered scalable data solutions using Python, PySpark, and AWS services, delivering 40% performance improvement in Spark job execution through optimization and modularization techniques.
- Developed cloud-native architectures on AWS platform utilizing Glue Data Catalogs, EMR, S3, and integrated with Snowflake and Iceberg for robust data storage and compute scalability.
- Collaborated with cross-functional teams including VPs, Product Managers, and Technical Leads to analyze user stories, design data applications, and deliver solutions for Asset and Wealth Management division.
- Implemented enterprise data orchestration using AutoSys for scheduling critical ETL workflows, ensuring compliance with internal data standards and business regulations.
- Led troubleshooting initiatives for distributed pipeline failures, conducting root cause analysis and implementing solutions that enhanced operational reliability and system stability.
- Contributed to software quality through Test-Driven Development (TDD) practices, code reviews, and automation testing frameworks.

Tata Consultancy Services – Bangalore (Client: PNC Financial Services, Inc.)
Data Software Engineer | Apr 2021 – Dec 2024

- Delivered end-to-end ETL solutions for enterprise Data Warehouse supporting banking operations, utilizing Hadoop, PySpark, and Python to process structured and unstructured data sources.
- Optimized data processing workflows using Hadoop, Spark, and Hive technologies, achieving low-latency data access and transformation for critical business operations.
- Collaborated with stakeholders including business analysts and analytics teams to translate complex requirements into robust data products and pipelines supporting decision-making processes.
- Developed automation frameworks for schema validation and data reconciliation, reducing QA efforts by 25% and improving data quality assurance processes.
- Mentored junior engineers and participated in code reviews, contributing to team-wide best practices and knowledge sharing initiatives.
- Created monitoring solutions using Unix shell scripts for job scheduling, system metrics logging, and automated troubleshooting of production issues.

Skills

- **Big Data Engineering:** PySpark, Spark, Hadoop, Hive, Kafka, ETL Pipelines, Data Lake Architectures, Databricks
- **Cloud Platforms:** AWS (Glue, S3, Lambda, Redshift, EMR, Athena), Azure (Data Factory, Synapse)
- **Programming:** Python, SQL, Java, Shell scripting
- **Frameworks & APIs:** FastAPI, Flask, Spring Boot, REST APIs
- **Databases:** Snowflake, Redshift, MongoDB, PostgreSQL, Oracle, S3, Iceberg, ADLS
- **DevOps & Tools:** GitLab, Terraform, AutoSys, Jenkins, Airflow, TDD, Unit Testing
- **Soft Skills:** Agile Collaboration, Cross-functional Teamwork, Business Communication, Documentation

Certifications & Accreditations

- Azure Data Engineer Associate – Microsoft
- Databricks Data Engineer Associate – Databricks
- Databricks Lakehouse Fundamentals – Databricks
- Databricks Generative AI Fundamentals – Databricks
- Google Cloud: Prompt Design in Vertex AI – Google Cloud

Projects

Enterprise Data Warehouse for Financial Services

Worked on a centralized enterprise data warehouse solution for PNC Bank as part of my tenure with Tata Consultancy Services (TCS). The platform consolidated financial and operational data across departments to enable analytics, compliance, and reporting.

Technologies: Python, PySpark, Data Modelling, Hadoop, SQL, ETL/ELT, reporting.

ChatGenesis

An AI-powered tool developed in Python that generates technical documentation such as API specifications based on a user's business or startup idea. Integrates generative AI capabilities for enhanced automation and relevance.

Technologies: Python, Generative AI (GenAI) | *GitHub*: [Project Link](#)

Personal Portfolio

A responsive static web application designed to highlight my skills, experience, and personal projects. Built using HTML, CSS, and JavaScript, and enhanced with external libraries via CDNs including jQuery, Font Awesome, and AOS for animations.

Technologies: HTML, CSS, JavaScript | *GitHub*: [Project Link](#)

Achievements & Recognition

- Outstanding Data Engineer award at TCS for exceptional contributions.
- Client appreciation for efficient product delivery under SLA.
- On-Spot and Employee of the Month awards for high-impact performance.
- Led reusable code standardization efforts across Engineering teams.