

Venkatesh Babu P

AWS Data Engineer

PROFILE SUMMARY

9 years of Vibrant working in Data Engineering and Analytics Industry.

- Design and execute migration plans, including timelines, resource requirements, and risk management strategies, ensuring seamless transitions to **AWS cloud** environments.
- Design and implement efficient ETL/ELT processes for loading, transforming, and migrating data into AWS services like **S3, Redshift, and Glue**.
- Lead the migration efforts of ETL workloads from legacy systems to AWS, ensuring smooth transitions and minimal disruption.
- Expertise in **AWS services**: S3, Glue, Lambda, Step Functions, Redshift, EMR, DynamoDB, and Athena
- Strong hands-on experience in **PySpark** for big data processing, ETL automation, and distributed computing.
- Designed and implemented **scalable data pipelines** for real-time and batch data processing.
- Proficient in **SQL, Python, and Spark SQL** for data transformation and analytics.
- Experience in **data modeling, schema design**, and database optimization (PostgreSQL, HANA, Oracle).
- Worked on **data lake architecture**, ensuring high availability, security, and cost efficiency.
- Collaborated with business teams to deliver **insightful reports and dashboards** using **Power BI and AWS QuickSight**.
- Profound understanding in the field of Supply Chain functional Area, especially in Purchasing, Inventory, Logistics, CRM
- Providing expertise in data storage structures, data mining, and data cleansing
- Worked in Agile style Projects, and well-versed in creating Epics, Features and stories using Azure Dev-ops Platform. Also, involved in the Scrum activities like daily stand up call, regular reviews and retrospectives.

PROFESSIONAL EXPERIENCE

Senior Consultant Feb '24 - Present
TATA CONSULTANCY SERVICES(TCS) Hyderabad, IN

AWS DMS, S3, Redshift, Glue, Athena, Lambda, Kinesis, BODS, HANA, Snowflake

Senior Data Analyst Jul '21 - Jan '24
COMMSCOPE Hyderabad, IN

CommScope is an American network infrastructure provider which designs and manufactures network infrastructure products

AWS DMS, S3, Redshift, Glue, Athena, Lambda, Power BI, HANA, Snowflake, BODS

Application Developer, BI Feb '17 - Sep '19
COMMSCOPE Hyderabad, IN

CommScope is an American network infrastructure provider which designs and manufactures network infrastructure products

Roles :- ad hock Analytics projects , Analytical, SQL, SSIS, Oracle DB, SSMS, SAP BODS, SAP BO

Senior Systems Engineer Sep '14 - Jan '17
INFOSYS Hyderabad, IN

Roles :- Individual Contributor, SSIS, Toad(Oracle DB), SSMS, Dev Ops

KEY PROJECTS

Project Title: Index Data Platform Services(IDPS)

Client: LSEG

Role: Sr Data Engineer

Responsibilities:

- Collaborate with stakeholders to gather business requirements and translate them into effective data architecture and processing strategies.
- Design and execute migration plans, including timelines, resource requirements, and risk management strategies, ensuring seamless transitions to AWS cloud environments.
- Design and implement efficient ETL/ELT processes for loading, transforming, and migrating data into AWS services like S3, Redshift, and Glue.

CONTACT

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Hyderabad, IN



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SUMMARY

AWS Certified Data Engineer with expertise in building scalable data pipelines using AWS services (S3, Glue, Lambda, Redshift, EMR) and PySpark for big data processing. Skilled in SQL, Python, and optimizing ETL workflows for real-time and batch processing.

KEY SKILLS

AWS S3 | AWS Lambda |
AWS Glue | Athena |
Redshift | Data Lake |
Team Lead | Team Mentoring |
PySpark | SQL | ETL |
ELT | SSIS | BODS |
Power BI |Data Visualization | Complex
Data Sets |Data Migration |Data
Integration | Reporting | Dashboard |
Data Pipeline Development | CI/CD GIT
|
Snowflake

TECHNICAL SKILLS

- 🔧 **Reporting Tools:** Power BI, QuickSight
- 🔧 **Methodologies:** Agile, Waterfall and Scrum
- 🔧 **ETL Tools:** HANASTUDIO, SAP BODS, SSIS, AWS Glue
- 🔧 **Databases:** Oracle 11g, Sql Server, S/4HANA,AWS Redshift, Postgre SQL
- 🔧 **Languages :** SQL, Python, Pyspark

Educational Qualification

B.Tech (ECE)

Awards

1. Star Awards for OneCRM Migration Project and Big Bang Project.
2. Innovation Award for POC on Predictive Maintenance

Certifications

1. *Undergoing “Executive Post Graduate Certification in Data*

- Optimize performance in AWS Redshift, applying query tuning techniques to enhance efficiency and reduce costs.
- Ensure the security and compliance of the AWS environment, adhering to relevant policies, standards, and data governance regulations.
- Conduct rigorous testing of migrated data and applications, ensuring they meet performance, functionality, and business requirements.
- Troubleshoot and resolve issues during testing, validating that the migrated environment aligns with operational standards.
- Create and maintain comprehensive documentation detailing migration processes, configurations, workflows, and best practices.
- Provide training and support to team members and stakeholders on AWS tools and platforms to facilitate smooth adoption.
- Ensure ongoing optimization and management of the AWS environment, incorporating industry best practices and performance monitoring techniques.

Project Title: Project Harmony - Procurement – CRIS Replacement

Role: Sr. Data Engineer

Responsibilities:

- Collaborate with cross-functional teams to gather business requirements and design scalable data solutions using AWS services that align with business needs.
- Analyze project requirements and delegate tasks effectively to team members to ensure timely delivery of data solutions.
- Develop and optimize data pipelines connecting both offline and online data sources (Bigdata), leveraging AWS services such as S3, Lambda, and Glue.
- Lead the migration efforts of ETL workloads from legacy systems to AWS, ensuring smooth transitions and minimal disruption.
- Participate in the design and development of metadata frameworks (e.g., AWS Glue Data Catalog) to support end-to-end ETL workflows from data ingestion to processing.
- Develop and manage orchestration workflows using AWS services like Step Functions and Apache Airflow for seamless execution of ETL jobs.
- Contribute to the design and development of the Data Ingestion Framework in AWS, utilizing services like Kinesis, Lambda, and Spark for efficient data loading.
- Work extensively with Amazon Redshift and other AWS analytics services (e.g., Athena, EMR) to ensure optimized computation and storage for large datasets.
- Build and manage monitoring dashboards using Amazon CloudWatch, enabling real-time reporting on ETL job performance and system health.
- Designed, implemented, and maintained data pipelines using Snowflake to streamline ETL processes, ensuring seamless data ingestion, transformation, and loading from multiple sources.

Project Title : OneCRM Data Migration

Environment : SSIS, SSMS(SQL SERVER)

Description : CommScope has acquired 'Arris International' as a part of its new acquisition in 2019 and the scope of this project deals with the migration of CRM data from Arris(sales force and peoplesoft oracle data) to Legacy CommScope Microsoft dynamics.

Responsibilities:

- Lead the team of 7 resources. Daily interactions with the team through scrum call, assigning tasks in Dev-ops, clarifying the issues raised in the team call
- Debugging the issues caused during the ETL development
- Creating work arounds to the problem that may not be solved by traditional methods
- Involved in creating, modifying, and analyzing SSIS ETL packages.
- Daily interactions with Business Users and functional analysts on requirements gathering, fields mapping from Sales force and Peoplesoft to MSD CRM

Previous and Other Engagements:

Science & Artificial Intelligence” by IIT Roorkee

2. **AWS Certified Data Engineer - Associate (DEA-C01)**
3. **Microsoft external certification 70-461(Querying Microsoft SQL Server 2012/2014)**

Organization/Client	Project Name	Project Type	Tools Used
CommScope	POC: IOT ML/AI which helps in predictive maintenance	AI/ML Concepts	Microsoft Azure, Python
CommScope	Revenue Forecasting	AI/ML Concepts	R, Python
CommScope	River Project(Big Bang 1,2,3,3.5)	ETL Development/Data Migration	SAP BODS, Rapid SQL
Infosys/Microsoft	Commercial Data Platform – Vnext (cdp-vnext)	ETL Developement	SSIS, Cosmos DB
Infosys/Microsoft	Commercial Data Platform (CDP-MSX)	Data Warehouse development	SSMS, Dev Ops
Infosys/Sony	JDM - Sagent Migration	ETL Migration	SSIS, Toad(Oracle db)