

NIKHIL TANGALLAPALLY

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SUMMARY

Accomplished Data Engineer with over 4 years of expertise in designing, developing, and optimizing data solutions on both Azure and AWS platforms. Proficient in creating scalable data pipelines and ETL processes, with hands-on experience in Azure Data Lake, Data Factory, and various AWS services. Proven ability to drive data integrity and enhance performance. Seeking to leverage extensive cloud and data engineering skills to support data-driven decision-making.

KEY SKILLS

Python, SQL, PySpark, HTML, CSS, JavaScript, AWS (Glue, Lambda, S3, EMR, Redshift, Kinesis), Azure (Data Lake, Data Factory, Synapse Analytics, SQL DB), Apache Spark, Airflow, AWS Management Tools (CloudWatch, CloudTrail), Azure Active Directory, Neo4j, SQL Server, Redshift, Hive, Pandas, Matplotlib, Tableau, SSIS, Talend, Snowflake, HDFS

PROFESSIONAL EXPERIENCE

Data Engineer, Intelligenie LLC, Alpharetta, GA

Oct 2023 - Present

- Architected robust security measures for source data access using authentication mechanisms such as access keys, SAS, and Azure AD.
- Designed and migrated relational and non-relational databases from on-prem SQL servers to Azure, enhancing data accessibility and reliability.
- Optimized and implemented application logic in Azure Data Lake, Data Factory, SQL Database, and SQL Data Warehouse, improving data processing efficiency..
- Developed PySpark scripts for data encryption and extraction, leveraging Spark SQL for enhanced data manipulation.
- Created SSIS Packages for ETL processes, ensuring efficient data transfer into SQL Server for OLAP cubes (SSAS).
- Streamlined data ingestion and processing within Azure services, enhancing performance and data integrity.

Data Engineer I, Amazon NOC, Hyderabad

Aug 2020 – Dec 2021

- Migrated on-premises applications to AWS, utilizing EC2 and S3 for small data set processing and storage, and managed Hadoop clusters on AWS EMR.
- Leveraged AWS services such as S3, EC2, Snowball, EMR, Athena, Glue, Redshift, DynamoDB, RDS, Aurora, IAM, Firehose, and Lambda for comprehensive data management solutions.
- Designed and implemented HIVE tables, views, and schemas, and executed Sqoop jobs to land data on HDFS.
- Conducted ETL operations using Apache Spark and implemented machine learning techniques for advanced data analytics. Designed and created SQL Server tables, views, stored procedures, and functions.
- Developed preprocessing jobs using Spark DataFrames to transform JSON documents to flat files.
- Collaborated with cross-functional teams to redesign NOC Central, increasing user satisfaction by 25% and reducing employee training time by 50%.

Data Engineer, Amazon NOC, Hyderabad

Jan 2019 – Jul 2020

- Developed Python scripts to integrate DDL changes between on-prem Talend warehouse and Snowflake. Utilized Snow SQL scripts to deploy new objects and update changes.
- Created application modules using the Python-Pandas library for data visualization, wrangling, and cleaning, improving data clarity.
- Designed and implemented HIVE tables, views, and schemas, and executed Sqoop jobs to land data on HDFS.
- Conducted ETL operations using Apache Spark and implemented machine learning techniques for robust data analytics.
- Processed big data across a Hadoop cluster on Amazon EC2 and S3, ensuring scalable data handling.
- Integrated DFT into existing systems, increasing user adoption rates by 40% and improving operational efficiency.

Support Engineer, Amazon NOC, Hyderabad

Jan 2018 – Dec 2018

- Created tables, views, and SQL queries in MySQL, utilizing MS Excel, MS Access, and SQL for efficient query operations.
- Performed troubleshooting, fixed bugs, and deployed Python scripts for key applications, ensuring seamless operations.
- Developed Python scripts to parse JSON documents and load data into databases, enhancing data processing workflows.
- Generated capacity planning reports using matplotlib, aiding in resource management.
- Analyzed logs to predict event occurrences using various Python libraries, improving system reliability.
- Automated data analysis and aggregation using Python scripts for structured and unstructured data, enhancing data insights.
- Identified system needs and requirements for business operations, contributing to strategic planning.
- Assisted in developing current and target state data architectures with internal architects, supporting long-term data strategy.

Certification

- Microsoft Certified: Azure Administrator Associate (Valid: March 2024 - 2025)
- Oracle Certified Foundations Associate (Valid: Aug 2023 - Aug 2025)

Education

Masters in Computer Information Systems & IT

University of Central Missouri, Lee's Summit, MO

Bachelors in Mechanical Engineering

JNTUH, India