

AKHIL KUMAR SANNIDIKOVELA (Azure Data Engineer)

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Professional Summary:

- Over 4 years of experience in IT as an Azure Data Engineer, specializing in tasks such as migrating SQL databases to Azure Data Lake, Azure Data Lake Analytics, Azure SQL Database, Data Bricks, and Azure SQL Data Warehouse. Proficient in managing database access, controlling permissions, and executing seamless migrations of on-premise databases to Azure Data Lake Store utilizing Azure Data Factory.
- Good understanding of Spark Architecture including Spark Core, Spark SQL, Data Frames, Spark Streaming, Driver Node, Worker Node, Stages, Executors and Tasks.
- Experience with MS SQL Server Integration Services (SSIS), T-SQL skills, stored procedures, triggers, and machine learning for optimized data solutions.
- Design and develop Spark applications using Pyspark and Spark-SQL for data extraction, transformation, and aggregation from multiple file formats for analyzing & transforming the data to uncover insights into the customer usage patterns.
- Design and implement database solutions in Azure SQL Data Warehouse, Azure SQL
- Experience in Database Design and development with Business Intelligence using SQL Server 2014/2016, Integration Services (SSIS), DTS Packages, SQL Server Analysis Services (SSAS), DAX, OLAP Cubes, Star Schema and Snowflake Schema.
- Excellent communication skills with excellent work ethics and a proactive team player with a positive attitude.
- Created Azure SQL database, performed monitoring and restoring of Azure SQL database. Performed migration of Microsoft SQL server to Azure SQL database.
- Have designed and developed ETL mapping for data collection from various data feeds using REST API.
- Expertise in various phases of project life cycles (Design, Analysis, Implementation, and testing).
- Proficiency in handling software development sprints, test, and delivery cycle for the development teams.
- Extensive experience in working with Informatica Powercenter.

Technical skills:

ETL	:	Azure Data Factory, Azure Data Bricks. Talend, DBT
Cloud Data Engineering	:	Azure, Spark, ADF, Azure Data Bricks, Azure synapse, Apache Airflow, Azure SQL (TSQL), IAM, Docker
Scrum & Version Tools	:	Jira, Git, Bitbucket
Database	:	MS SQL Azure, MS SQL Server, DB2, Oracle
Operating Systems	:	Windows 8, Windows 10, Windows Server 10, Linux
Programming	:	Python, SQL, Java, R, PySpark, SSIS, T-SQL

Professional Experience:

Christus Health, Irving, TX

Jun 2022 – CURRENT

Azure Data Engineer

Responsibilities:

- Designed and build analytic tools that utilize the data pipeline to provide actionable insights into customer acquisition, operational efficiency, and other key business performance metrics.
- Primarily involved in Data Migration using SQL, SQL Azure, Azure Data Lake and Azure Data Factory.
- Creating the linked service for source and target connectivity Based on the requirement
- Spearheaded the implementation of robust data processing solutions using Apache Spark, resulting in a remarkable 25% increase in data processing efficiency. Strategically optimized data workflows with Dataflow, showcasing a proactive approach in enhancing healthcare data management and analytics capabilities. Skillfully leveraged Hadoop for establishing an efficient and scalable data storage and analysis framework, contributing significantly to the organization's data-driven success.
- Created visualizations and dashboards using Tableau, translating complex data insights into actionable information.
- Based on the size of the source data, files will be processed in Azure Databricks using Spark SQL operations, which will then be deployed through Azure Data Factory pipelines
- Involved in deploying the solutions to QA, DEV and PROD in azure DevOps environment
- Professional in creating a data warehouse, design-related extraction, loading data functions, testing designs, data modeling, and ensure the smooth running of applications
- Responsible for extracting the data from OLTP and OLAP using Azure Data factory and Databricks to Data Lake
- Used Azure Databricks notebook to extract the data from Data Lake and load it into Azure and On-prem SQL database
- Worked on migration for large amount of data from OLTP to OLAP by using ETL Packages.
- Worked on Azure SQL Data Factory to load Azure SQL Data Warehouses for analytics and reporting.
- Developed PySpark, Python for regular expression (regex) in Data Bricks.
- Worked with complete architecture and large data sets and high-capacity big data processing, T-SQL and Data Warehouse projects, Azure Synapse Analytics

Warner Bros. Burbank, CA

Jan 2019 – Jul 2021

Azure Data Engineer

Responsibilities:

- Design and implement multiple ETL solutions with various data sources by extensive SQL Scripting, ETL tools, Python, Shell Scripting, and scheduling tools. Data profiling and data wrangling of XML, Web feeds and file handling using python, Unix, and T-SQL
- Loading data from different sources to a data warehouse to perform some data aggregations for business Intelligence using python
- Design and build data structures on Azure Data Lake and data processing using PySpark, to provide efficient reporting and analytics capability

- Developed Spark applications using PySpark and Spark-SQL for data extraction, transformation, and aggregation from multiple file formats
- Used Spark Streaming to receive real-time data from the Kafka and store the stream data to Data Lake using Python
- Collected data using Spark Streaming from Azure storage accounts in near-real-time and performed necessary transformations and aggregation on the fly to build the common learners' data model and persist the data in Data lakes.
- Created T-SQL Scripts for data cleansing, validation and transformations on MS SQL Server
- Authoring Python (PySpark) Scripts for custom UDF's for Row/ Column manipulations, merges, aggregations, stacking, data labeling and for all Cleaning and conforming tasks

AT&T, Remote
SSIS | SQL Engineer

Apr 2018 – Dec 2018

Responsibilities:

- Developed SQL objects, including tables, stored procedures, indexes, and triggers using T-SQL, showcasing expertise with a precision of 95%.
- Created SSIS packages to load data into Data Warehouse using Various SSIS Tasks like Execute SQL Task, bulk insert task, data flow task, file system task, send mail task, active script task, xml task and various transformations
- Extensively used different types of transformations such as lookup, slowly changing dimension (SCD), multi-cast, merge, OLE DB command, and derived column to migrate SSIS packages from one database to another database.
- Involved in queries optimization using tools such as SQL Profiler, Tuning Advisor, Execution plan, and statistics IO.
- Developed complex SQL queries and performed optimization of databases and tuning of long running SQL Queries by using SQL Server Profiler and SQL Tuning Advisor.
- Created error-handling capable SSIS packages with a precision of 91%, incorporating various data transformations like Conditional Split, Cache, For Each Loop, Multi-Cast, Derived Column, Merge Join, Script Component, Slowly Changing Dimension, Lookups, Mail Tasks, etc.
- Extensively used SSIS parallelism and multithreading features to increase performance and decrease ETL duration
- Validating and cleaning source data using different SSIS data transformations such as Script task, Conditional Split, lookup, slowly changing dimension, script component, Data conversion, derived columns, Merge join, etc.
- Created packages in SSIS with error handling capability, and using different types of data transformations like conditional split, cache, for each loop, multi cast, derived column, merge join, Script component, slowly changing dimension, Lookups, Mail tasks, etc.
- Created custom SSIS ETL Framework for loading Data Warehouse with restart ability logic and using DQS and MDM utilities for applying business rules
- Implemented package configurations in SSIS packages for cross environment deployment
- Perform a Proof of Concept to evaluate Azure Technologies which can be utilize for data Migration from Legacy system to Cloud

Education:

- **Masters in Computers from University of North Texas.**

