**Vamsi Krishna Nannapaneni**

**Okemos, Michigan**

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**Professional Summary:**

* Total 11.8 years of professional IT experience in Cloud Computing (SaaS, PaaS & IaaS) in developing and maintaining web and client/server applications using Microsoft Technologies.
* Hands-on experience in Azure Cloud Services (SaaS,PaaS & IaaS), Storage, Web Apps, Active Directory, USQLS, Application Insights, and Logic Apps.
* Experience of working with Azure Monitoring, Data Factory, Traffic Manager, Service Bus, Key Vault.
* Worked on Azure Machine Learning, Machine Learning Server, BOT framework, Azure Cognitive Services.
* Solid experience on building ETL ingestion flows using Azure Data Factory.
* Experience in building the Orchestration on Azure Data Factory for scheduling purposes.
* Hands-on experience in Azure Analytics Services – Azure Data Lake Store (ADLS), Azure Data Lake Analytics (ADLA), Azure SQL DW, Azure Data Factory (ADF), Azure Data Bricks (ADB) etc.
* Experience in building the data pipeline by leveraging the Azure Data Factory.
* Expertise in working with databases like Azure SQL DB, Azure and SQL DW, Snowflake.
* Orchestrated data integration pipelines in ADF using various Activities like Get Metadata, Lookup, For Each, Wait, Execute Pipeline, Set Variable, Filter, until, etc.
* Have knowledge and experience on Basic Admin activities related to ADF like providing access to ADLs using
* Service principle, installing IR, created services like ADLS, logic apps etc.
* Experienced in Azure Data Factory and preparing CI/CD scripts for the deployment and development experience on cloud platforms (Azure).
* Experience working with Azure Logic APP Integration tool.
* Experience in implementation of Azure log analytics providing Platform as a service for SD-WAN firewall logs.
* Experience in building Azure stream Analytics ingestion spec for data ingestion which helps users to get sub second results in Realties.
* Experience in building ETL (Azure Data Bricks) data pipelines leveraging PySpark and Spark SQL.
* Good experience on polybase external tables in SQL DW.
* Experience on major components in Hadoop Ecosystem like Hadoop Map Reduce, HDFS, HIVE, PIG, Hbase, Zookeeper, Oozie and Flume.
* Expertise in setting up processes for Hadoop based application design and implementation.
* Experience in importing and exporting data using Sqoop from HDFS to Relational Database and vice versa.
* Experience in managing and reviewing Hadoop log files.
* Experienced in processing big data on the Apache Hadoop framework using MapReduce programs.
* Excellent understanding and knowledge of NOSQL databases like HBase and Mongo DB.
* Profound understanding of Partitions and Bucketing concepts in Hive and designed both Managed and External tables in Hive to optimize performance.
* Proficiency in SQL across several dialects (MySQL, PostgreSQL, Redshift, SQL Server, and Oracle).
* Extensively worked with Teradata utilities Fast export, and Multi Load to export and load data to/from different source systems including flat files.
* Handling end to end implementation of the project Azure Cloud which involves responsibilities of operations management, requirements delivery and team management.
* Delivered 100% of the requirements which was planned to be implemented for the previous FY and improved the SLA for closure of cases to 4 hours per ticket from 6 hours per ticket.
* Following the agile and scrum methodology of project management and SDLC (Software Development Life Cycle) model for project development, delivery, and management.
* Planning for rolling out of new Business Process to Azure Cloud Users through creation of manuals, taking user trainings and other methods to educate them about the process.
* Bringing up new initiative within the team, to improve knowledge base and skill level of team with the latest developments of the technology.
* Worked and written on PDD, SDD, Workflow and POC for better understanding E2E business process.
* Post implementation support and tracking of issues with in SLA time.

**Technical Skills:**

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| **Cloud :** Azure (Data Factory, Data Lake, Data Bricks, Blob Storage, Azure SQL). |
| **ETL Tools :** Azure Data Factory(V2), Azure Data Bricks, SSIS, SSAS, IBM IIS DataStage |
| **ERP Cloud Tools :** Salesforce CRM, SAP CRM, SAP ECC, SAP SD R3, SAP HCM. |
| **Big Data :** Apache NiFi, PySpark, Apache Kafka. |
| **Reporting Tools :** Power BI, Micro strategy Desktop / Architect. |
| **Automation Tools :** Azure Logic App, DataStage Director, Crontab, Control-M, UiPath. |
| **Code Repository Tools :** GitLab, SVN – Tortoise, TFS, StarTeam, CI/CD(GitHub&Azure DevOps). |
| **Database**   **:** Oracle (10g, 11g, 12c), SQL Server (2008 R2), IBM DB2, Netezza, MySQL, |
| PostgreSQL. |
| **Data Warehouse :** Azure DW, Snowflake DW |
| **Operating System :** Windows, Sun-Solaris, Red Hat Linux, Ubuntu. |
| **Other tools :** Visual Studio, MS Office, WinSCP and Putty, Machine Learning, IOT, Event Hub |
| **Incident & Ticket Tools :** Service Centre, Magic, Remedy, Jira, and IBM Incident. |
| **Middleware Tools :** Wizard, Workbench, Data loder, Dataloder.io and Middleware. |
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**Education:**

* Master of Business Administration specialized in Marketing from Osmania University (MBA).
* Bachelor of Commerce from Osmania University (B.Com General).

**Certification:**

* **Microsoft Certified Azure Data Engineer Associate**

**Professional Experience:**

**T-Mobile, USA Jan 2022 – Present**

**Sr.Cloud/Azure Data Engineer**

**Responsibilities:**

* Involved in SDLC Requirements gathering, Analysis, Design, Development and Testing of application using Agile Methodology.
* Responsible for the execution of big data analytics, predictive analytics, and machine learning initiatives.
* Created Linked Services for multiple source system (i.e.: Azure SQL Server, ADLS, BLOB, Rest API).
* Created ETL Pipeline’s to extract data from on premises source systems to azure cloud data lake storage, extensively worked on copy activities and implemented the copy behavior’s such as flatten hierarchy, preserve hierarchy and Merge hierarchy, Implemented Error Handling concept through copy activity.
* Exposure on Azure Data Factory activities such as Lookups, Stored procedures, if condition, for each, Set Variable, Append Variable, Get Metadata, Filter and wait.
* Configured logic apps to handle email notification to the end users and key shareholders with the help of web services activity.
* Created dynamic pipeline to handle multiple sources extracting to multiple targets and extensively used azure key vaults to configure the connections in linked services.
* Configured and implemented the Azure Data Factory Triggers and scheduled the Pipelines and monitored the scheduled Azure Data Factory pipelines and configured the alerts to get notification of failure pipelines.
* Extensively worked on Azure Data Lake Analytics with the help of Azure Data bricks to implement SCD-1, SCD-2 approaches.
* Created Azure Stream Analytics Jobs to replication the real time data to load to Azure SQL Data warehouse.
* Implemented delta logic extractions for various sources with the help of control table; implemented the Data Frameworks to handle the deadlocks, recovery, logging the data of pipelines.
* Understand the latest features like (Azure DevOps, OMS, NSG Rules,etc..) introduced by Microsoft Azure and utilized for existing business applications.
* Worked on migration of data from On-prem SQL server to Cloud databases (Azure Synapse Analytics (DW) & Azure SQL DB).
* Deployed the codes to multiple environments with the help of CI/CD process and worked on code defects during the SIT and UAT testing and provide support to data loads for testing; Implemented reusable components to reduce manual interventions.
* Working on Azure Data bricks to run Spark-Python Notebooks through ADF pipelines.
* Using Data bricks utilities called widgets to pass parameters on run time from ADF to Data bricks.
* Created Triggers, PowerShell scripts and the parameter JSON files for the deployments.
* Worked with VSTS for the CI/CD Implementation.
* Reviewing individual work on ingesting data into azure data lake and provide feedback based on reference architecture, naming conventions, guidelines, and best practices.
* Implemented End-End logging frameworks for Data factory pipelines.
* Extensively involved in the Analysis, design, and Modeling. Worked on Snowflake Schema, Data Modeling and Elements and Source to Target Mappings, Interface Matrix, and Design elements.
* Performed data quality issue analysis using Snow SQL by building analytical warehouses on Snowflake.
* Used Snowflake cloud data warehouse for integrating data from multiple source system which include nested JSON formatted data into Snowflake table.
* Configured Stream Analytics, Event Hubs and worked to manage IoT solutions with Azure.
* Applied technical knowledge to architect solutions that meet business, and IT needs, created roadmaps, and ensure long term technical viability of new deployments, infusing key analytics and AI technologies where appropriate (e.g., Azure Machine Learning, Machine Learning Server, BOT framework, Azure Cognitive Services, Azure Databricks, etc.)

**Environment: Azure Data Factory, Azure Data Bricks, Azure Data Warehouse, ADLS Gen1 & Gen2, Azure DevOps, Azure BLOB Storage, Azure SQL Server/Database, Azure Synapse Services, PySpark,Python,CI/CD,Rest API,PolyBase,ETL, Snowflake, Data Modeling,IOT, Azure Machine Learning, BOT framework, Azure Cognitive Services, Stream Analytics, Event Hubs.**

**Gramercy Soft Technologies Private Limited, India / Infosys Limited, India Jan 2019 – Dec 2021**

**Cloud/Azure Data Engineer**

**Responsibilities:**

* Created ETL Pipelines in ADF using Linked Services, Datasets and Pipeline to Extract, Transform, and load data from different sources like Azure SQL, Blob storage, Azure SQL Data warehouse, write-back tool, and backward.
* Extracted, Transformed and Loaded data from Sources Systems to Azure Data Storage services using a combination of Azure Data Factory, Spark SQL, and U-SQL Azure Data Lake Analytics.
* Data is Ingested to one or more Azure Services - (Azure Data Lake, Azure Storage, Azure SQL, Azure DW) and processing the data in In Azure Databricks. Worked on Azure Services like IaaS, PaaS and worked on storage like Blob (Page and Block), SQL Azure.
* Implemented OLAP multi-dimensional functionality using Azure SQL Data Warehouse. Retrieved data using Azure SQL and Azure ML which is used to build, test, and predict the data.
* Worked on Cloud databases such as Azure SQL Database, SQL managed instance, SQL Elastic pool on Azure, and SQL server.
* Architect & implement medium to large scale BI solutions on Azure using Azure Data Platform services (Azure Data Lake, Data Factory, Data Lake Analytics, Stream Analytics, Azure SQL DW, HDInsight/Databricks, NoSQL DB).
* Responsible for estimating the cluster size, monitoring, and troubleshooting of the Spark data bricks cluster.
* Designed and developed Azure Data Factory pipelines to Extract, Load and Transform data from difference sources systems (Mainframe, SQL Server, IBM DB2, Shared Drives, etc.) to Azure Data Storage services using a combination of Azure Data Factory, Azure Databricks (PySpark, Spark-SQL), Azure Stream Analytics and U-SQL Azure Data Lake Analytics. Data Ingestion into various Azure Storage Services like Azure Data Lake, Azure Blob Storage, Azure Synapse Analytics (formerly known as Azure Data Warehouse).
* Configured and deployed Azure Automation Scripts for a multitude of applications utilizing the Azure stack (including Compute, Web & Mobile, Blobs, ADF, Resource Groups, Azure Data Lake, HDInsight Clusters, Azure Data Factory, Azure SQL, Cloud Services, and ARM), Services and Utilities focusing on Automation.
* Involved in Migrating Objects from Teradata to Snowflake and created Snow pipe for continuous data load.
* Increased consumption of solutions including Azure SQL Databases, Azure Cosmos DB and Azure SQL.
* Created continuous integration and continuous delivery (CI/CD) pipeline on Azure that helps to automate steps in the software delivery process.
* Deploying and managing applications in Datacenter, Virtual environment, and Azure platform as well.
* Involved in converting Hive/SQL queries into Spark transformations using Spark RDD's and PySpark.
* Log data Stored in HBase DB is processed and analyzed and then imported into Hive warehouse, which enables end business analysts to write HQL queries.
* Handled importing of data from various data sources, performed transformations using Hive, and loaded data into HDFS.
* Design, development, and implementation of performant ETL pipelines using PySpark and Azure Data Factory.

**Environment: Azure Data Factory(V2), Azure Data Bricks (PySpark, Spark SQL), Azure Data Lake Gen1/Gen2,Azure BLOB Storage, Azure ML, Azure SQL Server/Database, Hive, Python,Git, JIRA, HQL, Snowflake, Teradata,CI/CD,ETL.**

**Gramercy Soft Technologies Private Limited, India/ Coffee Day,India Aug 2017 – Dec 2018 Cloud/Azure Data Engineer**

**Responsibilities**

* Analyze, develop, and build modern data solutions with the Azure PaaS service to enable data visualization. Understand the application's current Production state and the impact of new installation on existing business processes.
* Worked on migration of data from On-prem SQL server to Cloud databases & Azure SQL DB.
* Extract Transform and Load data from Sources Systems to Azure Data Storage services using a combination of Azure Data Factory.
* Data Ingestion to one or more Azure Services - (Azure Data Lake, Azure Storage, Azure SQL, Azure DW) and processing the data in In Azure Databricks.
* Pipelines were created in Azure Data Factory utilizing Linked Services/Datasets/Pipeline/ to extract, transform, and load data from many sources such as Azure SQL, Blob storage, Azure SQL Data warehouse, write-back tool, and backwards.
* Managed relational database service in which the Azure SQL handles reliability, scaling, and maintenance.
* Successfully completed a proof of concept for Azure implementation, with the larger goal of migrating on-premises servers and data to the cloud.
* Updated and enhanced advanced reporting, analytics, dashboards, and BI solutions, continuously improving existing systems and integrating new ones.

**Environment: Azure Data Factory (V2), Linked Services/Datasets/Pipelines, Azure Databricks, Azure SQL Server, SQL Database Azure Data Lake, Azure Blob Storage, Azure Key-Vault, Azure Active Directory, Power BI**

**Gramercy Soft Technologies Private Limited, India/** **Home First, India Aug 2015 – Jul 2017**

**Azure Sql Developer**

**Responsibilities:**

* Designed and Configured Azure Cloud relational servers and databases analyzing current and future business requirements.
* Worked on migration of data from On-prem SQL server to Cloud databases (Azure SQL DB).
* Have extensive experience in creating pipeline jobs, scheduling triggers, Mapping data flows using Azure Data Factory(V1)
* Perform analyses on data quality and apply business rules in all layers of data extraction transformation and loading process.
* Perform validation and verify software at all testing phases which includes Functional Testing, System Integration Testing, End to End Testing, Regression Testing, Sanity Testing, User Acceptance Testing, Smoke Testing, Disaster Recovery Testing, Production Acceptance Testing and Pre-prod Testing phases.
* Have good experience in logging defects in Jira and Azure DevOps tools.
* Involved in planning cutover strategy, go-live schedule including the scheduled release dates of Portfolio central Datamart changes.

**Environment : Azure Microsoft SQL Server, Azure SQL DB, Jira, Azure DevOps tools ,Testing includes (FT,SIT,ETET,RT,ST,UAT,ST,DRT,PAT,PPT) , Azure Data Lake & BLOB, Azure Data Factory (V1), Pipeline jobs, Scheduling triggers, Mapping data flows.**

**Gramercy Soft Technologies Private Limited, India/ Optum India (Optum Health Care) Aug 2012 – Jul 2015**

**Data Analyst**

**Responsibilities:**

* Worked on new Data warehouse design for ETL and Reporting projects using SSIS .
* Created various kinds of reports using Power BI and Microstrategy BI based on the client's needs.
* Worked with Data Governance tools and extract-transform-load (ETL) processing tool for data mining, data warehousing, and data cleaning using SQL.
* Optimized SQL performance, integrity, and security of the project’s databases/schemas.
* Performed ETL operations to support incremental, historical data loads and transformations using SSIS.
* Creating and deploying parameterized reports using power BI and Microstrategy BI

**Environment: SQL Server, SQL DW, Incremental, Historical Data Loads ,SSIS, MS SQL Server, IBM DB2, Oracle10g, Query Analyzer, Microstrategy BI, Power Pivot, Windows, MS Excel, ETL.**