**Suman Pokharel**

**SQL/SSRS/SSIS Developer**

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**Summary:**

* A SQL and Business Intelligence Developer for more than 5 years of experience in Database Design, Development and implementation of Data Warehouse BI Solutions, Data Modelling, Database Programming, and Testing
* Thorough understanding of all the phases of SDLC including requirement gathering, analysis & design, implementation and delivery; versatility to work on different platforms and bring an innovative approach in designing solutions
* Completely verse with Cloud methodologies and terminologies (IaaS, PaaS, SaaS, FaaS and DaaS), Cost optimization techniques, different types of Services, Server less Services, API programming using C#.
* Well versed with MicroServices and Monolithic architecture using Docker and Kubernetes container orchestration.
* Implemented Data Orchestration using Apache AirFlow hosted by Azure Data Factory to prioritize and align Pipelines dynamically.
* Good experience of OnPrem ETL processes and tools and Technical expertise in ETL (Extraction, Transformation and Loading) of data from multiple feeds & sources (Excel, CSV, Flat Files, SQL, Oracle, JSON, Web Services, XML, SharePoint List and Third-party API’s (WINSCP-SFTP and Newton soft-JSON) into Data Warehouse using SQL Server Integration Services (SSIS).
* Conversant with Data Distribution algorithms like Round Robin, ASCII and Replicator, implemented Data Partitioning using Round Robin in Data Warehouse built using Azure MS SQL PaaS service.
* Well experienced on Server less Azure Data Factory Author and Monitor features in order to build Cost efficient pipelines to port data from multiple sources.
* Implemented Azure Data Factory Integration Runtimes to execute SSIS packages, collecting On Prem data scenarios, Parametrized Linked Services and re used existing Data Sets across most of the activities in a Pipeline.
* Good knowledge in EMR (Elastic Map Reducing) to perform big data operations in AWS. Knowledge in working with Amazon Web Services (AWS) using EC2 for computing and S3 as storage mechanism.
* Experience in dimensional data modelling and Cube development, partition, aggregation and optimization using SSAS.
* Experienced in Designing, Creating and processing of cubes using SSAS. Created and Configured Data Sources and Data Source Views, Cubes, and calculated measures for OLAP cubes.
* Experienced on Azure Data Factory and Azure SQL Database – implemented onPrem to Cloud data movement using ADF v2 Pipeline and SQL Database.
* Team player with the capability to motivate associates for delivering desired performance levels, strong communication, analytical and problem-solving skills.

**Technical Skills:**

* **Operating Systems:** Windows Server, AIX, Unix, Linux.
* **Cloud:** Microsoft Azure, Amazon Web Services.
* **Automation Tools:** Control-M, ESP
* **Language:** C#, .Net, Asp.Net, C, C++, T-SQL and PL/SQL
* **Databases:** SQL Server 2022/2019/2017/ 2016/ 2014, Oracle 19c.
* **ETL Tools:** SQL Server Integration Services (SSIS), Azure Data Factory v2.
* **Reporting Tool:** SQL Server Reporting Services (SSRS), Power BI, Tableau 2022
* **Analysis Tool:** SQL Server Analysis Services (SSAS), OLAP.
* **Scripting Tool**: PowerShell, Unix Shell Scripting
* **Others:** MS Office Suite, TFS, Tortoise SVN (Subversion), GitHub, MS-Teams, COZYROC, API Tool(Postman)
* **Documentation Tool:** Confluence

**Professional Experiences:**

**Cloud Data Warehouse Developer**

**Company: Prosperity Bank, Houston, Texas**

**Duration: Aug 2022 – Present**

**Responsibilities:**

* Worked on OnPrem version of Data Warehouse initially and moved to Cloud version in order to solve the challenges faced on OnPrem Servers, Leveraged power of Server less Azure Services which in turn used Apache Spark and Apache Superset.
* Implemented Data Factory Pipelines to load data from OnPrem SQL Server to Azure Data Lake Storage in the form of comma separated value format and further loaded this data into Azure MS SQL.
* Implemented Data Vault schema to store data in the form of Hub, Satellite and Link in order to support scalability and ease of adding new tables and attributes.
* Creating DB Objects like Stored Procedures, Functions, Views and Queries and Troubleshooting as needed.
* Using DTS/SQL Server Integration services Packages (Developing, Deploying, Scheduling, Troubleshooting and monitoring) for performing Data transfers and ETL purposes across different servers on a daily basis.
* Designed ETL packages dealing with different data sources (SQL Server, Flat Files, and XMLs etc.) and loaded the data into staging and data warehouse databases by performing different kinds of transformations using SQL Server Integration Services (SSIS).
* Used various transformations in SSIS like Lookup, Fuzzy grouping, Row count transformations.
* Proficient in Performance Tuning/Query optimization and identify coding issues and data exceptions, and cleaning data if required.
* Backing up databases & refreshing Data across environments. Huge Data transfers from & to SQL Server Databases using utilities/ tools such as DTS, SSIS, BCP, & Bulk Insert.
* Developed and maintained ETL packages to extract the data from various sources and Responsible for debugging and upgrading of several ETL structures as per the requirements.
* Actively involved in development phase for FRTB (New Project) including testing effort for IBOR Project.
* Actively participate in all the ceremonies of Agile Practice every day.

**Tools:** MS SQL Server 2022, Azure Data Factory, Azure Synapse Analytics, U-SQL, T-SQL, Oracle 19c, SSIS, SSAS, SSRS, C#, Windows Server, MS Visual Studio, Agile, Power BI, ESP Batch Processing and GIT Hub.

**SQL/ETL Developer**

**Company: HCA Healthcare, Brandon, FL**

**Duration: Oct 2020 - July 2022**

**Responsibilities:**

* Analysis of production implementation, in accordance of source data validation, implementing business logic and used transformations as per the requirement in developing ETL packages and loading the data into the target. GAP Analysis and Root cause Analysis.
* Designed, developed, tested and automated Extraction Transformation and Loading (ETL) processes using SQL Server Integration services.
* Analyzed and performed Data modelling and mapping which involved identifying the source data fields, identifying target entities and their lookup table ids and translation rules.
* Responsible for the development and management of Enterprise Data Warehouse processes and policies, following strategic direction on best practices for holistic architecture.
* Optimized stored procedures and long running scripts using execution plan, temp tables, and code rewriting and indexing strategies to increase speed and reduce run time.
* Designed Data Warehouse ETL packages to handle data change tracking using slowly changing dimension transformation for type 1 and type 2 dimension attributes. Managed data source connections within Power BI to ensure that users can securely access and refresh data from various sources such as SQL databases, Excel files, cloud services, etc.
* Design and develop high-quality ETL Informatica code, develop Unix scripts and scalable database systems.
* Design, develop, and implement SSIS packages and projects to efficiently process high-volumes of data from multiple sources and meet nightly processing windows requirements.
* Developed configurable metadata driven ETL solution to track execution parameters, logging, and decision-making during jobs’ execution in order to ease debugging process in case of job failure.
* Designed and developed ETL packages using SQL Server Integration Services (SSIS) to load the data from SQL server, XML files to SQL Server database through custom C# script tasks.
* Designed, developed, and deployed OLAP cubes and SSIS packages to process OLAP cubes through source views having dimension and fact tables listed. Utilized XMLA file for deployment of cube.

**Tools:** MS SQL Server 2019, T-SQL, Informatica, Tableau, SSIS, SSAS, SSRS, C#, VB.Net, Power BI, Windows Server, MS Visual Studio.

**Jr. SQL Developer**

**Company: Comerica Bank, Houston, Texas**

**Duration: Feb 2019 - Sep 2020**

**Responsibilities:**

* Participated in Planning, Defining and Designing database based on business requirements and provided documentation.
* Translated requirements, designs and functional specs into use case document, test plans and test cases documents.
* Developed complex Stored Procedures, Triggers, Cursors, Tables and other SQL Joins and Statements for Applications by using T-SQL.
* Optimized stored procedures and long running scripts using execution plan, temp tables, and code rewriting and indexing strategies to increase speed and reduce run time. Programmed SQL statements which includes joins and functions.
* Worked extensively on SQL System Defined Functions and User Defined Functions.
* Worked on various work flows like Data flow Task, Script Task, Execute SQL Task, Containers and File System Task.
* Implemented the logging, Breakpoints, handled errors especially for each loop and continued execution logging previous iteration error(s).
* Developed data import from Excel, Flat file to MS SQL Server by using BCP utility.
* Designed the functional and technical documents, report templates and reporting standards for the developers to work on the report development. Extracted data from star schema DSS data warehouse by creating and maintaining complex SSIS.
* Involved in building an extensive OLAP data warehouse on SSAS (Cubes, star schema).
* Developed cubes and dimensions and measures and calculated measures according to the business requirements.
* Dimensional & Normalized data models, Facts, Dimensions, Star Schemas and Snowflake Schemas.
* Created SSRS and Power BI reports to retrieve data using Stored Procedures that accept parameters.
* Developed customized reports and ad hoc reports as per the business requirements.
* Developed different data validation scripts for the Data analysts for verification of reports.

**Tools:** MS SQL Server 2017, T-SQL, SSIS, SSAS, SSRS, Power BI, C#, VB.Net, Windows Server, MS Visual Studio.

**Education:**

* Master’s Degree (Finance)