SUMMARY

- 4 + years of Azure Data Engineer with experience in building, testing, integrating, managing, and optimizing data from a variety of sources.
- In depth knowledge of data manipulation techniques and computer programming paired with expertise in integrating and implementing new software packages and new products into the system.
- Experienced in building Data pipelines using Azure Data Factory to extract, Azure Data flow to Transform
 and load data from different sources like Azure storage account, Data Lake to Azure SQL DB, Azure SQL
 Data warehouse.
- Good understanding of Spark Architecture and Spark Applications using Pyspark and Spark-SQL in Azure Databricks.
- Experienced in delivering robust and high availability solutions. Experienced in planning and migrating deployments of customer on-premises data center to Microsoft Azure.
- Strong experience in building data models for **OLTP** and **OLAP** systems using SQL Server, SQL Pool, and **Azure Synapse** Analytics
- Experience in design, testing, implementation, maintenance, and control of the organization's physical, relational, and object-oriented databases across multiple platforms and computing environments.
- Proven track record of optimizing Spark application performance for optimal batch interval time, parallelism level, and memory optimization
- Strong background in developing **T-SQL** queries for data transformation, cleansing, aggregation, good understanding of relational and dimensional data modeling.
- Experienced with **SSIS** performance tuning on Control flow, Data flow, Error handling, and Event handler, rerunning of failed **SSIS** packages.
- Adept at utilizing BI tools such as **Power BI** and **QlikView** for enhancing reporting capabilities and developing BI applications in accordance with client requirements.
- Demonstrated capability to liaise with key stakeholders for delivering compelling business value to senior leadership and clients.
- Well versed in Data warehouse concepts normalization/de-normalization techniques for optimum performance in relational and dimensional database environments and building Referential Integrity Constraints
- Strong knowledge in **Data Modeling** and Data analyzing in **MS SQL** Server and good knowledge in query optimization also.

TECHNICAL SKILLS

- SQL Server / Azure SQL Database
- Azure Synapse Analytics
- Performance Tuning & Optimization
- Data modeling, OLTP/OLAP

- Azure Data Factory / ETL / ELT / SSIS
- Azure Data Lake Storage
- Azure Databricks
- SSRS / Power BI / Tableau

EDUCATION

University of Missouri. Masters in computer science

PROFESSIONAL EXPERIENCE

Azure Data Engineer Detroit Public Schools, MI

may 2022 - Present

Number: +1 (913)980-4266

- Involved in building a data warehouse on Azure using **Data Factory**, **Databricks**, and **SOL** Serverless
- Designed and developed **ETL** pipelines using Data Factory to ingest data from multiple sources into **Azure Data Lake.**
- Built dynamic data pipelines to process multiple tables and files in the same pipeline using Watermark Table, parameters, variables, and various activities with **Azure Data Factory.**
- Implemented Slowly Changing Dimensions (Type-2) in delta lake using **PySpark**.
- Worked on performance optimization to increase Databricks performance by using proper joins, avoiding shuffles, salting, partitioning, bucketing, and using Z-Order clustering.
- Involved in processing and flattening JSON data using Mapping Data Flows, and Pyspark.
- Actively involved in monitoring and support of **Data Factory pipelines** and **Databricks** notebooks.
- Designed and developed SSIS Packages to extract data from various data sources such as Access database,
 Excel spreadsheet and flat files into SQL server for further Data Analysis and Reporting by using multiple
 transformations provided by SSIS such as Data Conversion, Conditional Split, merge, union all and lookup
 transformation and send mail task.
- Worked as a **BI** developer with following responsibilities.
- Maintained and optimized existing databases, monitored database performances and growth, performance tuning,
- Designed and maintained data models in Snowflake, optimizing for performance and scalability.
- Monitoring nightly jobs and investigate if there is any failure and fix the problem before the next run time.
- Daily Digest Email Project Process, to send automatically notifications about a job failures and successes
- Writing complex queries and Stored Procedures
- Creating a working plan to migrate to the cloud environment: Azure
- Creating complex SSIS packages to dynamically send required data elements to multiple Research Partners
- Creating complex **SSIS** packages, including script tasks (C#) to dynamically import thousands of files to the database.

Azure Data Engineer MetLife India

(April 2020 – July 2021)

- Design and implementation of greenfield cloud data solutions in Microsoft Azure, using Azure Data Lake 2, Azure Data Factory, Azure Logic Apps, Azure Functions, Azure Databricks, Python, and Power BI.
- Created and developed metadata driven data architecture to load data files from various sources into **Azure Data Lake** with the help of **Azure Data Factory** and **Databricks** (Python).
- Responsible for developing ETL pipelines to meet business use cases by using data flows, Azure Data Factory (ADF), Data Lake and Azure Datawarehouse.
- Built **ETL** solutions using Databricks by executing code in Notebooks against data in Data Lake and Delta Lake and loading data into **Azure DW** following the bronze, silver, and gold layer architecture.
- Created complex **ETL Azure Data Factory** pipelines using mapping data flows with multiple transformations including Schema Modifier transformations, row modifier transformations etc.
- Developed dynamic Data Factory pipelines using parameters and trigger them as desired using events like file availability on **Blob Storage**, based on schedule and via **Logic Apps**.
- Integrated the end-to-end data pipeline to take data from source systems to target data repositories.
- Responsible to manage data coming from different sources and loading of structured and unstructured data
- Worked on different files like CSV, JSON, Flat, fixed width to load the data from source to raw tables.
- Implemented Triggers to schedule pipelines.
- Use various types of activities: data movement activities, transformations, and control activities; Copy data, Data flow, Get Metadata, Lookup, Stored procedure, Execute Pipeline
- Used **Python** for performing Data cleaning and preparation on structured and unstructured datasets in data bricks.
- Constructing and optimizing complex **SQL** queries and stored procedures

- Developed Custom Email notification in Azure Data Factory pipelines using Logic Apps and standard notifications using Azure Monitor.
- Persist data in Synapse views and use Power BI to generate reports for decision making.

Azure Data Engineer Caterpillar, India

(March 2019 – April 2020)

- Extensively used Databricks along with **Azure Data Factory** (ADF) to compute large volumes of data.
- Performed ETL operations in Azure Databricks by connecting to different relational database source systems using JDBC connectors.
- Developed Python scripts to do file validations in Databricks and automated the process using ADF.
- Developed an automated process in Azure cloud which can ingest data daily from web service and load into Azure Data Lake Gen2.
- Analyzed data where it lives by Mounting Azure Data Lake and Blob to Databricks.
- Used Logic App to take decisional actions based on the workflow.
- Developed custom alerts using **Azure Data Factory**, **SQLDB** and Logic App.
- Developed Databricks ETL pipelines using notebooks, Spark Data frames, SPARK SQL, and python scripting.
- Developed complex **SQL** queries using stored procedures, common table expressions (CTEs), temporary table to support **Power BI** reports.
- Worked with enterprise **Data Modeling** team on creation of Logical models.
- Development level experience in Microsoft Azure providing data movement and scheduling functionality to cloud-based technologies such as **Azure Blob Storage** and **Azure SQL Database**.
- Worked on developing **JSON** Scripts for deploying the Pipeline in **Azure Data Factory** (ADF) that processes the data.
- Independently manage development of ETL processes development to delivery.
- Created Pipelines in ADF using Linked Services/Datasets/Pipeline/ to Extract, Transform, and load data from different sources like Azure SQL, Blob storage, Azure SQL Data warehouse, write-back tool and backwards.
- Migration of on-premises data (Oracle/ SQL Server/ DB2/ MongoDB) to Azure Data Lake Store (ADLS) using Azure Data Factory (ADF V1/V2).
- Designed and deployed many ETL workflows via Azure Data Factory (ADF) and SSIS packages to extract, transform and load data from SQL Server databases, excel and flat file sources into Data Warehouse.
- Recreating existing application logic and functionality in the **Azure Data Lake**, **Data Factory**, **SQL** Database and SQL data warehouse environment.
- Created Notebooks in Azure Data Bricks and integrated it with ADF to automate the same.
- Used Azure Data Factory to orchestrate Databricks data preparation and load them into SQL Data warehouse.