Sachin Krishna Morla
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PROFESSIONAL SUMMARY

- **Data Engineer** with 4 years of professional IT industry experience, skilled in working with extensive datasets and complex data structures, Database Management Systems, Software Development, AWS & Azure Cloud Engineering, Process Improvement, and Project Management
- Expertise in Data Analysis, Data Modeling, Data Engineering, Data Visualization, Data architecture and Passionate in applying the power of Data to Drive Business Success

EDUCATION

M.S. Computer Science **Aug 2021 – Dec 2022**
University of Dayton, Ohio
Specialization: Data Science and Artificial Intelligence

B.E. Electronics & Communication Engineering **Aug 2015 – May 2019**
Jawaharlal Nehru Technological University, Hyderabad, India

TECHNICAL SKILLS

- Data Analytics systems: PostgreSQL, My-SQL, Snowflake, Oracle, Hive, Teradata, DB2
- Data Visualization Tool: Microsoft Power BI
- Programming language: Python, PySpark, SQL
- Cloud: AWS, Azure
- AWS Ecosystem: S3, Step-functions, Cloud Watch, Glue, SQS, SNS, Lambda, EMR, Athena
- Azure Ecosystem: Azure Data Lake, ADF, Databricks, Azure SQL, Azure Synapse
- ETL Orchestration tools: Control-M, ETL Step Functions
- Version Control: GIT, Bitbucket

PROFESSIONAL EXPERIENCE

Data Engineer, Elevance Health **July 2023 – present**

- Working in an Agile development environment and involved in the daily scrum and other architecture meetings.
- Working on migrating on-prem Hadoop cluster data and data pipelines to the AWS cloud by extracting the data from on-prem clusters, transforming the structured data, applying tokenization by maintaining the data quality, and loading the data in Amazon S3 and Snowflake using AWS step functions as an ETL orchestrator.
- Created a pipeline to extract data from Snowflake, transformed it, and loaded it into AWS S3 and Teradata Servers. This data is accessed by end users and business applications
- Building ETL pipeline for extracting historical logs from Oracle, and SQL Server and Responsible for loading the customer's (Clinical, Claim, Member, Provider) data and event logs received from Kafka into S3 data lake and Snowflake.
- Collaborating with the infrastructure, network, database, application, and BI teams to ensure PHI/PII data quality and availability.
- Automated workflows using shell scripts to pull data from various databases into Hadoop and loaded data from the LINUX file system to the HDFS.
- Developed Spark streaming application to pull data from the cloud to Hive table and used Spark SQL to process the huge amount of structured data.
- Created FTP scripts for sqoop data from DB2 and stored in AWS as Avro formatting.
- Involved in ingesting data received from various relational database providers, on HDFS for analysis and other big data operations.
- Worked extensively with importing metadata into Hive using PySpark and migrated existing tables and applications to work on AWS cloud (S3).

Software Engineer, Eficens Systems Inc **May 2022 – May 2023**

- Worked in an Agile environment by attending Daily Stand-Ups, Sprint-Planning, Sprint Retrospective meetings, Managing Product Life Cycle and User Story Prioritization

- Involved in building data ingestion pipelines on Azure HDInsight spark cluster by using Azure Data Factory and Spark SQL services and developed Python script for loading data into Azure Synapse Analytics table.
- Created automated Databricks workflow using Python to run multiple data loads.
- Created and maintained databases, tables, queries, stored procedures, and SQL jobs in the SQL server.
- Used Power BI to create and maintain dynamic dashboards and reports.
- Created ETL packages using various control flows to extract data from multiple heterogeneous sources such as SQL server, flat files, excel, XML, JSON, OLAP, and OLTP and loaded the data into destination tables.
- Reviewed dashboards to analyze KPIs and identify performance patterns regularly.
- Documented processes, created templates, and maintained repeating processes for operations across teams.

Teaching Assistant, University of Dayton, Ohio **Jan 2022 – May 2022**
Supervisor: Dr. Cemil Kirbas

- Mentored 80 undergraduate students in Image Processing course
- Analyzed climate data using image processing and data visualization techniques in MATLAB

Data Analyst, Teleperformance **Sep 2019 – July 2021**

- Used SQL and other statistical data analysis to perform advanced statistical modeling and forecasting
- Developed dashboards using Power BI to display patterns and trends as well as to make sense of the insights produced for business decisions
- Extraction, data transformation, data loading, and management of all cross-functional reporting
- Helped businesses find patterns and relationships in data with casual interface & observations
- Investigated and troubleshot data anomalies and problems, and worked together with data engineers to find solutions as necessary
- Used pivot tables to compare and analyze data, providing a quick and easy way to spot patterns and trends

ACADEMIC PROJECTS

Dream Job Application (Android Studio, Java)

- Developed an Android application that assists professionals in preparing for a job by providing resources like exams to be taken, skills and education required for a particular job
- This app also provides information about the top contributors in the candidate's area of interest. Further, it calculates the year in which the candidate can likely reach a desired position by taking input from the current education

House Rental Analysis (AI, Python, SQL)

- Using Python, data were pulled from Google Maps and apartment webpages, housing market information was collected, SQL server database was built on the university's cloud platform, the data were imported into the database tables, and the data were cleaned and sorted using SQL
- At the project delivery session, directly connected Power BI dashboards to the database and used visual charts to drill down from a variety of factors, such as time, geography, and price range