

MARUTHI CHADALAPAKA

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Summary

Software Data Engineer with 5+ years of expertise in data modeling, achieved a 30% improvement in pipeline efficiency and a 20% reduction in data errors.

Education

Grand Valley State University, Michigan

August 2021 – April 2023

Master of Science in Data Science and Analytics

Mahaveer Institute of Science and Technology, India

August 2012 – June 2016

Bachelors of Technology in Electronics and Communication

Technical Skills

Languages/Scripting: Python, R, SQL, UNIX/Linux, Azure Cloud Shell, AWS CLI

Database: DynamoDB, CosmosDB, Redshift, Azure SQL, PostgreSQL, MySQL

Software & Tools: Databricks, Snowflake, Tableau, Power BI, Shiny, SSIS, Git, Jira(Agile Methodology)

Bigdata & Cloud Technologies: AWS, Azure, Spark, Kafka, Airflow, Hadoop (HDFS)

ML Libraries: Numpy, Pandas, PySpark, Scikit-Learn

Experience

Grand Valley State University

August 2022 – April 2023

Data Engineer

Michigan

- Designed test cases and developed code pipeline(CI/CD) for Cognitive analysis, reducing application downtime by 35%.
- Built ETL batch pipeline using Azure Data Factory and Blob Storage reduced processing time with 50%.
- Automated data security and data governance using Azure Key Vault and Microsoft Purview, achieving a 95% compliance.

Grand Valley State University

August 2021 – August 2022

Student Data Engineer

Michigan

- Retrieved 300 professors' ratings from various data sources using stored procedures, triggers to Azure Synapse.
- Integrated a real-time API data pipeline to Azure Event Hub, processing 10,000 records per second.
- Implemented Spark and Azure Databricks for data transformation and data loading increased by 80% speed.

Amazon

January 2020 - July 2021

Data Engineer

India

- Collaborated with stakeholders and identified 30% damaged products in inventories through AWS Kinesis.
- Implemented Airflow DAG, cutting data processing time by 20% and enabling seamless real-time data ingestion.
- Migrated data from SQL Server to AWS services resulting in a 50% increase in data accessibility for sellers.

Amazon

November 2018 - December 2019

Machine Learning Associate

India

- Developed Machine learning Algorithm, Linear Regression, to predict inventory levels resulted with 86% accuracy.
- Employed data cleaning and feature engineering techniques resulting in a 20% improved data quality.
- Detected Anomalies on real time streaming data using Apache Kafka to streamline data for 1GB data files.

Projects

Migrated On-premises data to Cloud | Python, Azure, SQL, GitHub

January 2023 - April 2023

- Maintained Azure Data Factory, led data migration with validation, schema design, and Fact/Dimension format.
- Adhered to Agile methodologies for iterative progress and regular feedback to ensure an efficient and flexible migration.

Unstructured to Structured Data Pipeline | Python, Azure Databricks, PowerBI

August 2022 - December 2022

- Implemented Azure Databricks, reducing process time by 80% through Delta Lake Architecture.
- Ingested data into Spark, transformed it into structured formats, and stored it in Azure Dedicated SQL Pool.

Real-Time Anomaly Detection | Apache Kafka, Apache Spark, HDFS, AWS

March 2021 - July 2021

- Extracted OLAP data and generated custom anomaly detection algorithm led to a 30% reduction in false positives.
- Redesigned real-time data ingestion pipeline using Apache Kafka.

Customer Satisfaction Dashboard | Python, Data Modeling, Git, Tableau

January 2018 - September 2018

- Illustrated an interactive Tableau dashboard comparing customer ratings from different platforms.
- Mediated between stakeholders and data engineer in achieving 90% user satisfaction in delivering products.

Extra-Curricular Activities

A Data-Driven Approach to Tackling Business Problems | [Article](#)

May 2023 - June 2023

- Suggested new approach through (What, How, Who) for solving business problems with data science and engineering.

Certifications

Certificate 1: Tableau Analyst

Certificate 2: AWS Cloud Practitioner

Certificate 3: Azure Data Engineer