SWATHI THOKALA

Kansas, US (Open to Relocation)

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EDUCATION

University of Central Missouri

Master of Science in Computer Science

Jan 2023 - May 2024 *Gpa - 4.0 / 4.0*

Jawaharlal Nehru Technological University

Bachelor of Technology in Computer Science

Aug 2016 - Sep 2020

Gpa - 8.27 / 10

EXPERIENCE

Tata Consultancy Services

Software Engineer (Data)

Feb 2021 - Dec 2022

Hyderabad, India

Developed a data ingestion pipeline to integrate daily batch data from Vendor Server to IBM DB2 data warehouse.

- Designed and implemented a batch data ingestion pipeline with Java to integrate end-of-day retail sales data from CSV / Flat files into DB2 database achieving monthly cost savings of \$15k as a result of automation.
- Created and deployed **Python** and **Unix** scripts to aggregate results from the pipeline and implemented an automated email system to provide **daily report** on the files processing status eliminating need for manual monitoring.
- Leveraged advanced **SQL** techniques such as **joins**, **CTEs**, **and query optimization** to migrate data from **DB2** to vendor server and orchestrated the pipeline using **cron** jobs.
- Collaborated with clients and 2 cross-functional teams to apply business rules on the data and created design plans.

Re-engineered an ETL pipeline for XML files, cutting pipeline processing time from 40 to 1 minute.

- Developed an ETL pipeline replacing SSIS and C# with Java and Xpath Selectors to process Sales Orders XML files.
- Optimized memory footprint of the pipeline by 75% with **stream processing** and reduced the server load.
- Utilized **Git** for **continuous integration and continuous deployment (CI/CD)** processes and experienced with **Agile/Scrum** methodologies as well as the **Waterfall** software development life cycle (SDLC).
- Solved 5+ production level issues and provided the resolutions for high priority incidents and created the documentations
 for Root Cause Analysis.

ACADEMIC PROJECT EXPERIENCE

Youtube Trend Analysis Pipeline | Python, Airflow, Docker, AWS S3, PostgreSql | See Article

May 2024 - Jun 2024

- Created a fully automated ETL pipeline by following the Medallion Architecture with Pyspark and Airflow to identify the
 daily top 5 Youtube trending videos from 30+ countries based on views and likes.
- Implemented pipeline that extracted data from the **YouTube Data API** and transformed it using PySpark.
- Designed the database using a **Star Schema** with 3 dimension tables and 1 fact table. Utilized **GitHub** for **CI/CD** and containerized the ETL pipeline with **Docker**.
- Developed a materialized view that refreshes daily at 12 AM Midnight and built a **Tableau** Dashboard to visualize data insights.
- View Tableau Dashboard

CERTIFICATIONS

- AWS Certified Data Engineer Associate See Certificate
- SQL Intermediate Hackerrank Certificate See Certificate

SKILLS

- · Languages: Java, C#, Python, SQL
- Database Systems: MySql, PostgreSql, NoSql(MongoDb, Neo4j)
- Cloud: AWS
- Tools and Frameworks: Apache Airflow, Apache Camel, Docker, Git, Tableau, Jupyter Notebook
- Big Data: Apache Spark(PySpark), ETL, Data pipeline, Data Warehousing(Star, Snowflake)

ACHIEVEMENTS

- Academic Excellence Award for ranking first among 10,000 students in the university.
- Inducted into Phi Kappa Phi, a National Honor Society that honors high academic achievement.