SATHVIK VISHNUMOLAKALA

934-698-5146 | sathvikvishnumolakala@gmail.com | Linkedin | Portfolio

SUMMARY

Software Engineer with 1.5 years of experience in Java and SQL, aspiring to transition into Azure Data Engineering. Skilled in designing scalable data pipelines, optimizing data workflows, and leveraging Azure services such as Data Factory, Synapse Analytics, and Databricks. Seeking a Data Engineer role to apply expertise in ETL, data transformation, and analytics while continuously expanding knowledge in cloud-based data engineering.

EDUCATION

Vignan's Lara Institute of Technology and Sciences — **Vadlamudi, India**
B.Tech in Electronics and Communication Engineering — *Aug. 2019 – May 2023*

EXPERIENCE

Java Developer — **Nov 2023 – Present**
Tata Consultancy Services (TCS)

- Developed and maintained robust and scalable enterprise applications using Java, Spring Boot, and Maven, ensuring high performance and reliability.
- Optimized database operations by implementing efficient JPA repositories and JDBC queries, reducing query execution time and improving system responsiveness.
- Automated XML data exchange processes, including extraction, transformation, and storage, leading to improved data consistency and streamlined integration with third-party systems.
- Designed and implemented XML parsing solutions to seamlessly integrate structured data with external interfaces, enhancing interoperability between services.
- Collaborated with cross-functional teams, including business analysts, QA engineers, and DevOps, to develop and deploy scalable software solutions aligned with business requirements.
- Designed and managed database views and schema optimizations to support API functionalities, ensuring efficient data retrieval and system maintainability.

PROJECTS

Data Engineering Pipeline for Insurance Analytics | *ADF, ADLS, Synapse, Databricks*

- Developed a scalable end-to-end **data engineering pipeline** to optimize **claims processing** and **customer segmentation** for an insurance company.
- Ingested and stored structured and unstructured data into **Azure Data Lake Storage (ADLS) Gen2**, enhancing accessibility by **30%**.
- Designed and implemented data processing workflows using **Azure Synapse Analytics**, reducing query execution time by **25%**.
- Utilized **Azure Databricks** and **PySpark** for advanced data transformations and analytics to enable **targeted marketing campaigns**.
- Automated the entire pipeline using **Azure Data Factory (ADF)**, improving data processing efficiency by **20%** and reducing manual intervention.

End-to-End Data Engineering with Azure | *ADF, ADB, ADLS*

- Designed a data pipeline to process Tokyo Olympic data from Kaggle.
- Used **Azure Data Factory** to ingest data into **Azure Data Lake Storage**.
- Developed **PySpark** scripts in **Azure Databricks** for transformation.
- Loaded data into **Azure Synapse Analytics** for efficient querying.

TECHNICAL SKILLS

Programming Languages: Java, Python, SQL (MySQL, SQL Server), C
Data Engineering: Azure Data Factory, Azure Databricks (PySpark), Azure Synapse Analytics, ETL Pipelines, Data Modeling
Cloud Platforms: Microsoft Azure (ADLS, ADF, Databricks, Synapse)
Database Management: SQL Server, MySQL, NoSQL (Cosmos DB)
Data Processing & Orchestration: Azure Data Factory, Databricks Workflows
CI/CD & DevOps: CI/CD Pipelines, Docker, Git, Jenkins, Sprint Boards
Developer Tools: Visual Studio, Eclipse, IntelliJ, SQL Server Management Studio
Other Competencies: Data Warehousing, Data Governance, Performance Optimization

CERTIFICATES

- **Programming for Everybody (Python)** | *Coursera*
- **Python Data Structures** | *Coursera*
- **Using Python to Access Web Data** | *Coursera*
- **Using Databases with Python** | *Coursera*
- **PCB Design** | *APSSDC*