

TEJAS VEDAGIRI

Data Engineer

Led the successful completion of complex software projects, utilizing my expertise in Apache Spark, resulting in a 70% cost reduction and saving over 100 hours per week. Currently pursuing a master's at Florida State University. My career spans more than 4 programming languages, Databases and tools, specializing in transforming proof of concepts into enterprise software. Actively engage in machine learning and deep learning projects within the Big Data ecosystem.

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SKILLS

Java 8, 11, 17



Scala 2.12



Spark 3.2.1



Hadoop



Big Data



RDBMS



Kafka



Python 3.11



SpringBoot



NoSql



Deep Learning and Machine Learning



ReactJs



WORK EXPERIENCE

Student Worker

Center for Ocean-Atmospheric Prediction Studies

09/2022 - Present

Tallahassee, FL

Collaborated with JPL NASA to seamlessly integrate OIIP Viewer into COAPS ecosystem, enhancing data visualization capabilities and enabling advanced analysis, optimizing research outcomes.

Achievements/Tasks

- Revamped **OIIP Data** viewer with **Podman Compose**, enabling researchers to deploy global data point visualization services. Making it a 0-click deployment and establishing a scalable, production-grade solution.
- Spearheaded the optimization of **GeoServer**, **Solr**, **Postgres**, and the **OIIP Data Viewer**, resulting in a **30%** increase in system performance and enriched user experience.
- Guided the transition to harvesting data from **ERDDAP** as the primary data source using **Python** and enacted **PostgreSQL** for storage, remarkably improving data handling capabilities for research projects and leading to refined accessibility and user-friendliness.

Contact : Michael McDonald - michael.mcdonald@fsu.edu

WORK EXPERIENCE

Data Engineer

Walmart Global Tech India

10/2020 - 08/2022

Bangalore, India

Spearheaded innovative data engineering initiatives at Walmart, collaborating closely with the Finance team to drive analytics, planning, and budgeting innovation; achieved a 70% decrease in cloud cost and saved 100+ hours per month through automation.

Achievements/Tasks

- Led the architectural design and successful implementation of 'Ensure', a data quality and reconciliation framework powered by **Apache Spark 3.2.1** with the capability to read from any **Big Data** source, ensuring 100% accurate and auditable data, leading to improved decision-making and enhanced customer satisfaction.
- Developed and implemented custom connectors on the **Apache Spark** platform, enabling seamless data consumption via **DAX** queries for **PowerBI**; revolutionized data insights for the organization, reducing data processing time by 70%.
- Successfully optimized both **Code, Cloud infrastructure** and **Big Data** storage, resulting in a remarkable **70% reduction** in resource utilization costs. This not only streamlined operations but also significantly contributed to cost savings.
- Conducted a comprehensive evaluation of 5+ Data Engineering orchestration tools, including **ADF, Cloud Fusion, and Internal solutions**. This assessment aimed to identify the best-fit solution considering development efficiency, project timelines, and resource costs.
- Optimized **Google BigQuery SQL** queries and **Apache Spark** in Memory operations, resulting in 30% to 40% performance improvements. This optimization query response times effectively reduced the cost associated with data read operations, demonstrating a keen focus on efficiency and cost-effectiveness.

Contact : Sridhar Swarna - Sridhar.Swarna@walmart.com

Software Engineer

Software Engineer at Temenos India PVT LTD

04/2018 - 10/2020

Bangalore, India

Joined Htrunk, a startup later acquired by Temenos, into a dominant force in the banking software industry. Developed and applied data-driven strategies that propelled client growth by 10x and positioned the company as a leader in innovation.

Achievements/Tasks

- Leveraged **Spark Kafka** to establish a robust data ingestion framework, enabling real-time data processing and seamless integration with **Spark ML**, resulting in an 80% reduction in latency and improved predictive capabilities.
- Architected and implemented a seamless UI-based pipeline builder, leveraging **Apache Spark** and **JS**, to integrate **Spark ML** into the Temenos **Data Lake** Ecosystem. Enabled real-time loan predictions and empowered users with up-to-date insights.
- Engineered a robust text search feature using **Apache Solr**, integrating **Apache Spark** for data ingestion and UI development; accelerated text search performance by 40% and facilitated seamless user interaction.
- Streamlined metadata management and data lineage processes by putting into effect the use of the **Apache Atlas** framework, Optimizing data governance for a team of 200+ stakeholders.
- Created a framework to collect custom metrics from **Apache Spark** and executed a highly scalable monitoring module using the **Executor framework**, resulting in a 90% increase in job tracking and success rate monitoring.

Contact : Mallesha Mahadeva - mallesha.mahadeva@coindcx.com

ACHIEVEMENTS

Hackathon Victory at Walmart

Emerged as the victor in the Walmart Hackathon, outperforming more than 500 rival teams; demonstrated exceptional analytical ability and technical competence, earning recognition for exceptional leadership and achievement.

Top 10 Placement in Temenos Hackathon

Ranked within the top 10 teams out of 200 participants in a highly competitive Temenos-hosted hackathon, demonstrating exceptional investigative and creative thinking abilities that led to industry recognition.

EDUCATION

Master's in computer science

Florida State University

08/2022 - Present

Tallahassee, FL - CGPA - 3.77

Bachelor of Engineering in Computer Science

NITTE Meenakshi Institute of Technology

08/2014 - 06/2018

Bangalore, India - CGPA - 8.16