Venkatesh Addala

+1-3213169856 · Venkatesh.addala98@gmail.com · Linkedin/VenkateshAddala · github/VenkateshAddala

Professional Experience

Impetus Inc.   **May 2022 - June 2024**
Software Engineer

- Enhanced data processing performance by 45% and increased scalability by 60% through the migration of SAS Stored Procedures to PySpark using Databricks.
- Boosted query response time by 70% and reduced data storage costs by 50% by optimizing ETL workflows during the migration from Informatica and Teradata to Snowflake for the Cummins project.
- Modernized SSIS workflows by transitioning to cloud-based ETL pipelines on Databricks using Python, PySpark, and Spark SQL, improving execution times by 50% and ensuring high data accuracy.
- Conducted POCs on AWS Glue and Delta Lake pipelines, effectively showcasing modern ETL tool capabilities and securing new projects for the firm.
- *Tech Stack:* Python, PySpark, SQL, Snowflake, Databricks notebooks, Informatica, Teradata, SAS.

Exafluence Inc.   **Aug 2020 - May 2022**
Software Engineer

- Played a crucial role in the development of the EXF-FHIR Full Stack application managing over 100 million healthcare records with RESTful APIs for CRUD operations and version control.
- Implemented Spark and Kafka ETL modules for batch and real-time data ingestion, transforming into centralized HL7 FHIR format in compliance with HL7 FHIR standards and seamlessly integrating it with EXF-FHIR application.
- Optimized the 1199 Enterprise Data Warehouse Modernization project by converting complex SQL Stored procedures and building scalable ETL workflows, increasing data processing speed by 70%, and scalability by 60%.
- Developed and deployed a standalone web application, ensuring high performance and reliability, while managing end to end deployment and maintenance of application instances.
- *Tech Stack:* Java, Spark, SQL, Hive, Airflow, Spring Boot, Kafka, Dataproc, MongoDB, ReactJS, Python, SSIS, Postman, CI/CD .

Education

University Of Central Florida   **Aug 2024 - May 2026**
Master of Science in Computer Science   Orlando, USA

Sri Venkateswara University   **Aug 2017 - Sept 2020**
Bachelor of Technology in Computer Science and Engineering   India

Projects

Pipeline Automation with Apache Airflow

- Automated the ETL process using Apache Airflow to extract data from an external API, transform it, and load it into an SQL database. The workflow included data validation, cleaning, and scheduling, all managed by Airflow's Directed Acyclic Graphs (DAGs) to ensure timely and efficient data processing.
- *Tech Stack*: Apache Airflow, Java, SQL, REST API

Full Stack Application - Microservices

- Built a full-stack application from the ground up using Java with the Spring Boot framework, MongoDB and ReactJS for the front end. Leveraged modern libraries like MaterialUI, Ant Design (Antd), and Bootstrap to ensure cross-compatibility and responsive design across devices. The application featured robust back-end APIs, efficient data handling and a dynamic user-friendly interface, enhancing both performance and user experience.
- *Tech Stack:* Java, Spring boot, MongoDB, ReactJS, Bootstrap.

Technical Skills

- *Programming:* Java, Python, JavaScript, Scala
- *Cloud & Big Data*: GCP, AWS, Azure, Databricks, Kafka, Apache Airflow, Maven, SBT, Spark, Snowflake, Spark SQL, Hive
- *Databases:* MongoDB, SQL, PostgreSQL
- *Technologies/Frameworks:* Full stack Web Development, Spring-Boot, Micro Services, ETL, ReactJS, Bootstrap, AWS glue, Docker, CI/CD, Kubernetes, ADF pipelines.

Leadership/Extracurricular

- *Team Contributor:* Played a pivotal role in Coding-Club SVUCE, facilitating tech discussions and workshops, contributing to a collaborative and knowledge-sharing environment
- *Multifaceted Event Roles:* Orchestrated technical events during Cynosure and Rhapsody Annual Fest.
- *Project Management:* Lead a team of three during my undergrad final semester project and a team of six in my Diploma final semester project.

Awards and Certifications

- Honoured with the Prathibha Merit Award by the Chief Minister of Andhra Pradesh.
- Awarded a gold medal for achieving valedictorian presented by our College Dean.
- Recognized with the Technical Excellence Award for outstanding performance at Exafluence.
- Attained certifications as a MongoDB and Databricks Certified Developer.