Venkatesh Addala

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Professional Experience

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

- Improved performance by 35% and increased data processing capacity by 40% by converting SAS Stored Procedures to PySpark using Databricks,
- Increased query response times by 45% and reduced data storage costs by 20% through re-engineering ETL pipelines during a migration from Informatica and Teradata to Snowflake for the Cummins Project.
- Implemented SSIS workflows to a modern cloud environment like Databricks using Python, PySpark, and Spark SQL to enhance pipeline performance, resulting in reduced execution time by 30% and improved data accuracy across workflows.
- To evaluate modern ETL tools, conducted POCs on AWS Glue and Delta pipelines, these POCs played a pivotal role in 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 APIs for CRUD operations and version tracking.
- Implemented Spark and Kafka ETL modules for bulk and real-time stream processing into centralized HL7 FHIR (Health Level Seven International - Fast Healthcare Interoperability Resources) format for handling healthcare data in compliance with HL7 FHIR standards and integrated it with EXF-FHIR application.
- In the 1199 Enterprise Data Warehouse Modernization project, converted complex SQL procedures and built ETL workflows to improve data processing speed by 40%, and scalability by 60%.
- Also developed a standalone web application and contributed to the deployment and maintenance of application instances, ensuring optimal performance and reliability.
- *Tech Stack:* Java, Spark, SQL, Hive, Airflow, Spring Boot, Kafka, Dataproc, MongoDB, ReactJS, Python.

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

- Automating 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

- *Languages:* Java, Python, JavaScript, SQL, MongoDB, Scala
- *Developer Tools:* IntelliJ Idea, Spring Tool Suite, Databricks, GitHub, GCP, AWS Glue.
- *Technologies/Frameworks:* Web Development, Spring-Boot, Micro Services, Kafka, ReactJS, Bootstrap, Docker, CI/CD, Apache Airflow, Maven, ETL, Spark, Snowflake, Spark SQL, Hive.

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.