

Venkatesh Addala

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Education

University Of Central Florida

Master of Science in Computer Science

August 2024 - May 2026

4/4 CGPA, Orlando, USA

Sri Venkateswara University

Bachelor of Technology in Computer Science and Engineering

August 2017 - May 2020

India

Technical Skills

- **Programming Languages:** Java, Python, Scala, C/C++, React, MongoDB, SQL, PostgreSQL, Linux
- **Cloud & Big Data:** AWS, Azure Databricks, Snowflake, Kafka, Apache Airflow, Spark, Apache NiFi, Spark SQL, Hive, ETL
- **Tools:** Git, Postman, Maven, SBT, VS Code, IntelliJ, STS, OBIEE, JIRA, SSIS, DBEaver
- **Technologies/Frameworks:** Full stack Web Development, Spring-Boot, Micro Services, OAuth2, Spring Cloud, Feign, Spring AI, AI/ML, Bootstrap, AWS glue, Docker, CI/CD, Kubernetes, Azure ADF pipelines.

Professional Experience

Impetus Inc.

Software Engineer

May 2022 - June 2024

India

- Elevated processing **performance by 45% and scalability by 52%** through converting **SAS Stored Procedures to PySpark on Databricks**.
- Improved **query performance by 72%** and reduced **storage costs by 63%** by streamlining **Informatica and Teradata** workflows during migration to **Snowflake** and integrated it with **OBIEE** visualization tool.
- Modernized **SSIS workflows** by transitioning to cloud-based ETL pipelines on Databricks built with Python, PySpark, and Spark SQL, improving execution times by **49%** and ensuring high data accuracy.
- Conducted POCs on **AWS Glue**, Crawlers, Triggers, Blueprint, S3, **Redshift** and **Delta Lake** pipelines, showcasing modern ETL tool capabilities and securing new projects.
- **Tech Stack:** Python, PySpark, SQL, Snowflake, Databricks notebooks, Oracle visualization tool(OBIEE), Informatica, Teradata, SAS.

Exafluence Inc.

Junior Software Engineer | Software Engineer

August 2020 - May 2022

India

- Played a crucial role in developing the **EXF-FHIR Full Stack** application managing over **200 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 data in compliance with **HL7 FHIR** standards and seamlessly integrating it with EXF-FHIR application.
- Redesigned and fine-tuned the **1199 Enterprise** Data Warehouse Modernization project by converting complex SQL stored procedures containing **intricate row-level looping logic** into scalable ETL workflows boosting **processing efficiency by 74%** and upgrading system **scalability by 39%**.
- Developed and deployed **web applications**, ensuring high performance and reliability, while overseeing 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

Projects

Machine Learning–Driven Cricket Analysis and Match Outcome Prediction:

- Analyzed **IPL Cricket match data (2008–2024)** to clean, visualize, and engineer features, then built and compared **logistic regression**, **Random forest**, **Gradient boosting**, and **XGBoost** models, achieving **74.5% accuracy** to predict match winners and guide team and stakeholder decisions.

Pipeline Automation with Apache Airflow:

- Automated an ETL process through **Apache Airflow** to extract data, modify and loading it to a target database, resulting in data processing time reduced by 2+hours in total due to automated workflow efficiency

Full Stack Application - Microservices:

- Built a full-stack application from scratch, leveraging **Java** with **Spring Boot**, **Spring Cloud**, **MongoDB** and **ReactJS**. and integrated **LLM's** like **OpenAI** using **Spring AI**. Employed modern libraries **MaterialUI**, **Ant Design**, and **Bootstrap** to engineer seamless interactions from zero critical bugs reported to minimal issues during production rollouts.

Awards and Certifications

- Received the **Prathibha Merit Award** from the Chief Minister of Andhra Pradesh | 2017
- Awarded a **Gold Medal** for Valedictorian Honors, presented by the College Dean, for outstanding academic achievements | 2018
- Honored with the **Technical Excellence Award** by Exafluence for exceptional performance in technical projects | 2021
- Certified as a **MongoDB Developer (C100 Dev)** and **Databricks Certified Developer for Apache Spark** | 2021,23
- Completed **Career Essentials in Generative AI** Certification by **Microsoft and LinkedIn** | 2024