# Venkatesh Addala

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## Professional Experience

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

- Enhanced data processing performance by 45% and boosted scalability capabilities by 60% through the successful migration of SAS Stored Procedures to PySpark using Databricks, leading to improved system responsiveness.
- Boosted query response time by 70% and reduced data storage costs by half by optimizing ETL workflows during migration from Informatica and Teradata to Snowflake for the Cummins project.
- Modernized SSIS workflows by transitioning to cloud-based ETL pipelines on Databricks built with Python, PySpark, and Spark SQL, improving execution times by 50% and ensuring high data accuracy.
- Conducted POCs on AWS Glue and Delta Lake pipelines, 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 developing 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 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 .

## Education

**University Of Central Florida**                                                                                                    **Aug 2024 - May 2026**
Master of Science in Computer Science, GPA: 4.0                                                                        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 through Apache Airflow to extract data, transforming and loading it into an SQL database, resulting in a 40% reduction in data processing time
- *Tech Stack*: Apache Airflow, Java, SQL, REST API

**Full Stack Application - Microservices**

- Built a full-stack application from scratch, leveraging Java with the Spring Boot framework, MongoDB and ReactJS. Employed modern libraries 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:* Led a team of three during undergrad final semester project and a team of six in 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 the College Dean.
- Recognized with the Technical Excellence Award for outstanding performance at Exafluence.
- Attained certifications as a MongoDB and Databricks Certified Developer.