

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
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Technical Skills

- **Programming Languages:** Java, Python, Scala, ReactJS, 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, LLMs, Spring Cloud, Spring OpenFeign, Spring Eureka, Spring AI, AI/ML, Bootstrap, AWS glue, Docker, CI/CD, Kubernetes, Azure ADF pipelines.

Professional Experience

University of Central Florida <i>Graduate Research Assistant</i>	August 2025 - May 2026 Orlando, USA
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- **Architected a Playwright (Chromium) + MCP automation framework** to batch-export Canvas LMS SpeedGrader artifacts and scratch sheets into canonical, UCF-ID-keyed PDFs, delivered via a secure Python/Flask web portal.
 - **Piloted with 50 students**, reducing grader workload by >90% and turnaround from 30-40 minutes to 2-3 minutes, with zero access or retrieval errors across 100+ files.
 - **Co-authored an ASEE 2026 paper** (ID 51179) on this automation project titled “ReQuillify: A Learner-Driven Facility for Building Remediation Capacity in STEM Courses.”
- Delivered scalable, reproducible analytics by architecting a **thread-parallel, end-to-end NLP pipeline integrating LLMs, sentence-embedding-based semantic similarity aggregation, unsupervised topic modelling (NMF)**, and statistical visualization.
 - Quantitatively assessed AI proficiency, adoption attitudes, integration depth, and workforce readiness in hospitality and tourism education based on student discussion posts and submitted as a peer-reviewed abstract to the 4th Annual Teaching and Learning with AI Conference (UCF) as a co-author.
- **Tech Stack: Python, Flask, Playwright (Chromium), MCP Automation, LLMs (Mistral, Qwen, LLaMA), NLP, Pandas, Matplotlib**

Impetus Inc. <i>Software Engineer</i>	May 2022 - June 2024 India
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- 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 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. <i>Junior Software Engineer Software Engineer</i>	August 2020 - May 2022 India
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- 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**

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