

SURYA VAMSI MADIPALLI

+91 9603190630 . vamsi3927@gmail.com. <https://www.linkedin.com/in/madipalli-surya-vamsi>

BIG DATA DEVELOPER

An innovative software developer with over four years of experience in crafting high-quality, reliable code and in designing, testing, and managing big data applications. Proficient in leveraging big data tools like Apache Spark, Hadoop, Airflow, as well as AWS services for optimized data processing and storage solutions.

SKILLS

- **Programming Languages** : Python, Java, SQL
 - **Data Storage & Processing** : Hadoop, Hive, Apache Spark, Amazon S3
 - **Data Warehousing** : Amazon Redshift
 - **Data Streaming & Messaging** : Apache Kafka
 - **Orchestration & Workflow** : Apache Airflow
 - **Automation & CI/CD** : GitLab CI/CD
 - **Containerization** : Docker
 - **Cloud Services** : AWS
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PROFESSIONAL EXPERIENCE

Tavant Technologies

System Administrator

February 2024 - Present

Responsibilities:

- Managed the health and performance of an 8000+ server infrastructure using Apache Hadoop, with automation tools like Puppet and Ansible.
- Performed regular maintenance to optimize server efficiency and prevent security vulnerabilities.
- Proactively monitored system metrics and resource utilization with Grafana dashboards to ensure cluster stability.
- Troubleshooted and resolved server errors to minimize downtime and maintain high availability.
- Provisioned new servers to support the growing infrastructure, ensuring scalability and reliability.

ValueLabs Solutions

Big Data Developer

July 2020 - January 2024

As a Big Data Developer, worked collaboratively to transform raw data from multiple client sources into structured formats, performing comprehensive consistency checks to validate data integrity.

Responsibilities

- Developed high-performance Spark applications in Java to process large-scale data, handling nearly 5-6 billion records daily.
- Led the migration of a legacy application to modern technologies, including Spark and Airflow, achieving a 40% reduction in processing cost and time.
- Oversaw the end-to-end development lifecycle of Spark applications, including development, testing, deployment, and monitoring.
- Designed and implemented DAGs in Apache Airflow to orchestrate Spark workflows.

- Built and maintained GitLab CI/CD pipelines to automate application build, testing, and deployment processes.
 - Created automated test frameworks to validate end-to-end functionality, enabling continuous testing with every code change.
 - Automated two manual monthly processes by developing applications in Spark with Java and Airflow, enhancing operational efficiency.
 - Integrated applications with Datadog for real-time monitoring, including performance metrics, delays, and failure alerts.
 - Developed Terraform scripts to manage and scale AWS infrastructure, ensuring smooth operations.
 - Actively participated in Agile-based software development, contributing to iterative project improvements and team collaboration.
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EDUCATION

- MVGR College of Engineering, Vizianagaram
Bachelor of Technology in Computer Science and Engineering with 8.93/10 (CGPA)
July 2016 - June 2020
 - Sri Chaitanya Junior College, Vizianagaram
Intermediate (MPC) with 95.4%
June 2014 - March 2016
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CERTIFICATIONS

- Data Engineering Nanodegree
Udacity, March 2023
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ACHIEVEMENTS

- Awarded the Star of the Quarter in recognition of outstanding performance and contribution, February 2023.
- Recognized with the Star of the Month award for exemplary work, March 2022 and June 2023.
- Selected to attend the Mission R&D Summer Camp at IIIT Hyderabad, 2019, a competitive program aimed at enhancing technical and problem-solving skills.
- Achieved 14th Rank in India in IEEEExtreme 13.0, a prestigious 24-hour global coding competition hosted by IEEE.
- Ranked 1st in District in the AP Code Champs 2019 competition, advancing to the state-level round organized by the AP TPO Consortium.