

# Sai Nithin Reddy Vantari

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## Professional Summary!

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Data Engineer and Software Developer with over 2 years of professional experience in leveraging cloud technologies, developing data pipelines, and building scalable software solutions. Proficient in tools like Azure Databricks, Power BI, React.js, and Node.js. Demonstrated expertise in workflow automation, database optimization, Python programming, and creating dynamic, user-friendly applications. Proven ability to migrate legacy systems, design dashboards, and support data-driven research projects. Currently pursuing a Masters in Computer Science with a 3.9 GPA, bringing a blend of technical acumen and innovative problem-solving skills to deliver impactful results.

## Experience

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**Graduate Assistant**, Southern Illinois University Carbondale – Carbondale, IL Aug 2024 – Present

- Conducted data analysis and created interactive visualizations using Python libraries like Matplotlib and Seaborn, as well as Power BI
- Optimized research databases with PostgreSQL, enhancing query performance and reliability
- Designed dynamic dashboards and reports in Power BI, visualizing key research and performance metrics
- Automated data collection and processing workflows using Python scripts, significantly reducing manual tasks
- Supported faculty in preprocessing and statistical analysis of data for research projects, employing scikit-learn and NumPy
- Documented data workflows and methodologies, ensuring process transparency and reproducibility
- Mentored undergraduate students in Python, database management, and data visualization techniques

**Data Engineer**, Accenture – Hyderabad, India Sept 2022 – July 2023

- Executed data migration and transformation processes using Azure Databricks, ensuring accuracy and operational efficiency
- Designed and maintained ETL pipelines via Azure Data Factory, streamlining data flow and integration
- Transitioned data from legacy systems to Azure cloud platforms, achieving significant performance improvements
- Integrated Azure Data Lake Store with other Azure services for seamless analytics and data management
- Automated end-to-end workflows on Azure Databricks, enhancing reliability and scalability
- Monitored Streamset and Azure pipelines, ensuring data accuracy and resolving issues promptly
- Developed and executed DDL scripts, migrating schemas from SSMS to Snowflake for improved database performance
- Maintained runbooks and Power BI reports to support operational excellence
- Conducted SIT testing and created test cases in QTest to validate stored procedures and ensure system functionality

**Software Engineer Intern**, Ushasree PVT LTD – Hyderabad, India August 2021 – August 2022

- Developed a responsive company website using HTML, CSS, and JavaScript, enhancing customer engagement
- Built a backend system with Java and the Spring Boot framework, streamlining data processing workflows
- Designed and integrated RESTful APIs for data management, ensuring efficient communication between systems
- Managed and optimized MySQL database schemas for robust data storage and retrieval
- Collaborated with teams to gather business requirements and implement tailored solutions

## Education

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**Southern Illinois University Carbondale** Aug 2023 – Present

Masters of science in Computer Science

**Marri Laxman Reddy Institute of Technology and Management**

Aug 2018 – May 2022

Bachelor of Technology in Information Technology

## Technical Skills

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**Programming:** Python, Java, C++ , SQL, JavaScript, Bash

**Data Engineering:** Azure Databricks, Snowflake, Apache Spark, Data Lakes, ETL (Azure Data Factory, SSIS), Airflow, Kafka, Talend

**Cloud Technologies:** Microsoft Azure, AWS, GCP

**Database Management:** PostgreSQL, Snowflake, SSMS, MongoDB, Oracle

**Data Visualization:** Power BI, Matplotlib, Seaborn

**Machine Learning, MLOps:** TensorFlow, PyTorch, scikit-learn, MLflow, Kubernetes, Docker, CI/CD for AI models

**CI/CD:** CI/CD Pipelines using Azure Pipelines and Jenkins

**Big Data Technologies:** Hive, HDFS, NoSQL

**Web Development:** React.js, Node.js

## Projects

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### Question Answering System using Natural Language Processing

- Developed an AI-powered question answering system that provides precise answers extracted from documents by utilizing transformer architecture to train on advanced vocabulary and grammar learning techniques, enabling direct answer extraction from document datasets.
- Tools Used: Tensor flow, Machine Learning, Python, Jupyter Notebook

### Blockchain Based Voting System

- Created a decentralized voting application on the Ethereum blockchain that leverages smart contracts written in Solidity to ensure secure and tamper-proof electronic voting across multiple devices, providing a robust and transparent voting mechanism.
- Tools Used: Ethereum Blockchain, Solidity, Smart Contracts, Web3 Technologies, Decentralized Applications

## Certificates and Achievements

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- Achieved the Python Gold Level Badge on HackerRank after completing 100+ coding challenges with an average score above 95%, highlighting strong expertise in Python programming and problem-solving skills.
- Earned the PCAP: Programming Essentials in Python certificate from Cisco Networking Academy and OpenEDG Python Institute, demonstrating proficiency in Python programming, including data structures, algorithms, OOP, and standard libraries.
- Completed the Data Structures course from the University of California San Diego through Coursera, demonstrating proficiency in fundamental data structures and their applications.
- Achieved the Gold Level Badge in Problem Solving on HackerRank, demonstrating advanced problem-solving skills and proficiency in algorithmic challenges.