

Kranthi Vanukuru

Data Engineer

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Summary:

Results-driven Data Engineer with experience in AWS, big data technologies, and full-stack web development. Strong background in data processing, automation, and cloud solutions. Passionate about optimizing workflows and ensuring high-quality data for business insights.

Technical Skills:

Programming Languages:	Python, SQL, JavaScript, Java, Scala
Big Data & Cloud:	AWS (Glue, Redshift, EMR, Athena, S3, Lambda, Step Functions, CloudWatch), PySpark, Hive, Sqoop, Apache Kafka
Machine Learning:	Scikit-learn, TensorFlow, Keras, XGBoost, Pandas, NumPy, Matplotlib, Seaborn, Model Evaluation, Feature Engineering, Hyperparameter Tuning
Databases & Tools:	PostgreSQL, MySQL, Snowflake, DynamoDB, MongoDB
Data Visualization:	Tableau, QuickSight, Power BI
ETL & Workflow Orchestration:	Apache Airflow, Oozie, Informatica
DevOps & CI/CD:	Git, Docker, Kubernetes, Jenkins, Terraform
Other Tools:	Apache Spark, Hadoop, REST APIs, JSON, XML

Work Experience:

Blue Cross Blue Shield | Columbia, SC

Senior Developer

Aug 2024 – Present

- Developed and optimized scalable, high-performance data pipelines utilizing a variety of AWS services such as Glue, Redshift, EMR, Athena, and S3 to efficiently manage and process large datasets while ensuring data quality.
- Automated data workflows to eliminate manual intervention, significantly improving operational efficiency, reducing human errors, and optimizing the use of cloud resources, which led to substantial cost savings.
- Responsible for maintaining the accuracy, integrity, and reliability of data processed across various systems, ensuring the successful delivery of critical business insights to data scientists and analysts.
- Implemented cost-optimization strategies to minimize AWS-related expenses while maintaining the same level of service and performance, contributing to an overall reduction in infrastructure costs.
- Collaborated extensively with cross-functional teams, including product managers, business analysts, and data scientists, to design and deliver tailored data solutions that addressed the needs of various business units, resulting in improved decision-making and operational workflows.
- Monitored, troubleshooted, and resolved issues within data pipelines using AWS CloudWatch, Step Functions, and other monitoring tools, ensuring seamless data flow and minimal downtime across all systems.

National Exchange Carrier Association Inc | Morristown, NJ

Full Stack Web Developer

June 2023 – Dec 2023

- Built and maintained web applications using Python, JavaScript, and modern frameworks.
- Integrated backend services with cloud-based solutions for enhanced performance.
- Improved application efficiency and user experience through optimized frontend and backend development.
- Designed and implemented RESTful APIs to enable seamless communication between microservices.
- Conducted performance tuning and debugging to enhance application responsiveness.
- Worked closely with UX/UI designers to improve usability and accessibility of web applications.

Defense Research and Development Organization (DRDO) | Hyderabad, India

Software Intern

May 2018 – June 2018

- Contributed to cutting-edge prototype design and development using Xilinx Vivado and ZYNQ-based MicroZed board, showcasing successful proof-of-concept demos.
- Conducted rigorous testing, ensuring performance adherence, and identifying improvements, while collaborating on Hardware Abstraction Layer (HAL) libraries for streamlined peripheral control and enhanced code portability.
- Produced detailed technical documentation, including reports and user manuals, to facilitate knowledge sharing, troubleshooting, and future reference for design, development, and testing processes.

Certifications & Publications:

- Published multiple research papers in international journals

Education:

New Jersey Institute of Technology, Newark, NJ

August 2021 – Dec 2022

Master of Science, Data Science

Coursework: Data Management & System Design, Data Mining, Machine Learning, Deep Learning, Big Data, Data Analytics with R, Applied Statistics, Intro to Stats with SAS & R, Web Systems Development, Data Structures & Algorithms.