

# Vamsi Krishna

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## SKILLS

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Azure Data Factory | Azure Synapse Analytics | Azure Databricks | Azure Data Lake Storage | Azure Blob Storage | Apache Spark | PySpark | SparkSQL | Azure Event Hubs | Azure Stream Analytics | Azure Functions | Azure Logic Apps | Azure SQL Database | Azure Cosmos DB | Data Warehousing | ETL/ELT | Data Modeling | Data Pipelines | Dimensional Modeling | Azure DevOps | GitHub Actions | CI/CD | Terraform | ARM Templates | Docker | Kubernetes | Azure Kubernetes Service (AKS) | Infrastructure as Code | Azure Monitor | Log Analytics | Application Insights | Power BI | Data Visualization | SQL | Python | Java | Kafka | Serverless Computing | Security | Role-Based Access Control (RBAC) | Data Governance | Data Lineage | Azure Key Vault | Compliance | Snowflake | Virtual Networks | Performance Optimization | Cost Management | Automation | Problem-Solving | Teamwork | Communication | Adaptability | Time Management | Creativity | Leadership

## WORK EXPERIENCE

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**Data Engineer** August 2022 - October 2024  
ReactiveStax(Employer) - TD Insurance(Client) | Canada

- Developed tailored data transformation processes using **Apache Spark** on **Databricks**.
- Designed and implemented scalable **ETL** pipelines using **PySpark** to process and prepare large datasets for analytics.
- Integrated multiple data sources into Apache Spark, leveraging **DataFrame APIs** and **SparkSQL** for efficient data processing.
- Created a data streaming pipeline using **CDC** from DB2 to Elasticsearch, enabling real-time dashboards in Kibana.

- Built a **Kafka-Databricks** real-time streaming analytics system, significantly improving data processing speed.
- Reduced data processing latency by **50%**, enabling faster decision-making for critical business processes.
- Enhanced data quality and integrity through optimised ETL pipelines, leading to more accurate and reliable reporting.
- Streamlined data operations, saving significant time and resources by automating previously manual processes
- Empowered actuaries and underwriters with real-time insights via a **Kibana dashboard**, improving operational efficiency.

## Junior Data Engineer

April 2020 - April 2022

ReactiveStax(Employer) - Allstate(Client) | Canada

- Maintained and developed **Azure Databricks** data pipelines for efficient data transformation using Apache Spark.
- Supported data ingestion and processing tasks, ensuring seamless integration from various data sources.
- Implemented **microservices** using **Spring Boot**, secured with **Spring Security**, and utilized Kafka for message brokering.
- Assisted in data storage and retrieval processes using **Azure Data Lake Storage** and **Blob Storage**.
- Performed data analysis using Spark SQL and DataFrame operations to support reporting and analytics.
- Enabled efficient data processing through well-designed pipelines, reducing data transformation times significantly.
- Enhanced data retrieval and storage mechanisms, ensuring high availability and performance of data solutions.

## Project Intern

August 2016 - July 2017

Indian Space Research Organisation(ISRO) | India

- Established a private cloud infrastructure using **OpenStack**, configuring necessary components for optimal performance.
- Managed network interfaces and name resolutions for controller and compute nodes.
- Configured a user-friendly web dashboard for managing cloud resources and access controls.
- Installed and set up **KVM Hypervisor**, **MariaDB**, and **RabbitMQ** to support cloud infrastructure.
- Provided a robust foundation for future cloud-based projects, supporting the organization's research and operational needs.
- Improved system efficiency and reliability, contributing to ISRO's technological advancements.

## PROJECTS

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### Personal Portfolio

[View in GitHub](#)

- Developed and deployed a personal website using **React**, **Node.js**, JavaScript, HTML, and CSS. Implemented a responsive and interactive user interface, showcasing my portfolio and blog.
- Hosted the website on **AWS Elastic Beanstalk**, ensuring reliable and scalable access. This project demonstrates my full-stack web development and cloud deployment skills.

### Microsoft Fabric

[View in GitHub](#)

- Developed a data ingestion pipeline within **Microsoft Fabric** utilising **Azure Data Factory (ADF) v2**.
- Utilized ADF connectors to extract data from diverse sources and orchestrate the landing of data in an ADLS Gen2 lakehouse within the Fabric workspace

## CERTIFICATIONS

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**AWS Solutions Architect - Associate (AWS SAA)**

[View credentials](#)

**AWS Developer - Associate (AWS DVA)**

[View credentials](#)

**Google Cloud Certified Associate Cloud Engineer**

[View credentials](#)

## EDUCATION

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**M.Sc. in Computer Science (Thesis) -**  
University of Western Ontario (Canada)

August 2018 - Jan 2020

**Bachelor of Technology (B. Tech.)**  
Gitam University, Hyderabad (India)

July 2013 - April 2017