

# Vamsi Uddaraju

## Data Engineer/Java Developer

Driven Data Engineer with a passion for transforming complex data into valuable insights. Skilled in designing scalable data pipelines and implementing robust ETL processes to support business analytics. Proficient in Java, Python, SQL, and cloud technologies (AWS/GCP/Azure), with a strong focus on optimizing data quality and performance. Dedicated to continuous learning and innovation in data engineering to drive business success

## WORK EXPERIENCE

### Data Engineer

TD Insurance

04/2022 - 04/2024

Toronto, Canada

#### Achievements/Tasks

- Using **Databricks**, developed tailored data transformation processes using Apache Spark, optimizing data manipulation and cleansing operations to suit the unique requirements of TD Insurance.
- Designing and developing scalable **ETL** pipelines using **PySpark** to process large volumes of data efficiently. Implementing data transformations, aggregations, and joins to prepare data for analytics and reporting.
- Integrating data from various sources (e.g., databases, cloud storage) into Spark using **DataFrame APIs** or **SparkSQL**.
- Collaborated closely with business stakeholders, data analysts, and domain experts to understand insurance data domain intricacies and translate business needs into scalable and robust Data Flow solutions.
- Streamed the data from Relational Database (**DB2**) via **CDC** (SQ- Data) to ElasticSearch to build a Kibana based dashboard for Actuaries and Underwriters.
- Implemented a real-time streaming analytics pipeline using **Kafka** and Databricks, reducing data processing latency by 50% and enabling faster decision-making.

### Junior Data Engineer/Java Developer

Allstate

03/2020 - 02/2022

Toronto, Canada

#### Achievements/Tasks

- Developed and maintained data processing pipelines using Azure **Databricks**, leveraging Apache Spark for scalable and high-performance data transformations.
- Support the development of data pipelines using Azure Databricks to process and transform data from various sources. This includes learning to write code in Python, SQL within the Databricks environment to perform data transformations and aggregations.
- Assist in ingesting data from different sources into Azure Databricks and storing it in appropriate formats. Learn to work with Azure storage services such as Azure Data Lake Storage or Azure Blob Storage for data storage and retrieval.
- Implemented Data Client layers by creating multiple Rest Api's. Implemented the applications using **Spring Boot** framework and handled the security using **Spring Security**. Used **Microservice architecture** with Spring Boot based services interacting through a combination of **Apache Kafka** message brokers and REST.
- Support data analysis tasks within **Azure Databricks** by learning to use tools like **Spark SQL** and **DataFrame operations**.



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## SKILLS

Databricks

Azure

Java

Python

Kafka

Pyspark

SparkSQL

Azure Data Factory

Azure Synapse

Microsoft Fabric

Microservices

RestAPI

Terraform

SQL

AWS

GCP

Jenkins

ArgoCD

ElasticSearch

Docker

Spring Boot

Spring Rest

Spring Kafka

Spring Security



## CONFERENCES & COURSES

Firewall Security For Connected Vehicles (08/2018 - 12/2019)

Western University



## VOLUNTEER EXPERIENCE

Science Rendezvous

Western University

Canada

Science Olympics

Western University

Canada

Blue Boxes for Books

Western University

Canada

## WORK EXPERIENCE

### Software Intern

#### Indian Space Research Organisation(ISRO)

08/2016 - 07/2017

Hyderabad,India

##### Achievements/Tasks

- Establishment of private cloud infrastructure using **OpenStack** - To build the infrastructure service in the cloud for providing the storage, compute resources.
- Installed the necessary components by configuring network interfaces and name resolutions in both controller and compute nodes.
- Configured dashboard that provides a web-based interface which is used to perform operations like launching an instance, allocating IP address and setting access control.
- Installed Hypervisor(KVM), SQL(**MariaDB**) to store information on controller nodes.Installed messaging queue(Rabbitmq-server) on controller nodes for coordination among services.

## PERSONAL PROJECTS

### Personal Portfolio

- 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 [Cloud Platform], ensuring reliable and scalable access. This project demonstrates my full-stack web development and cloud deployment skills.

### Microsoft Fabric

- Developed a data ingestion pipeline within **Microsoft Fabric** utilizing **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.

### Microsoft Fabric -2

- Built a customer onboarding data pipeline within Microsoft Fabric. Utilized Azure Data Factory (ADF) v2 to extract customer data from diverse sources like marketing platforms and social media APIs. Cleaned and transformed the data using a combination of **Data Wrangler's** visual interface and custom code within **Azure Databricks notebooks**.

## EDUCATION

### Masters in Computer Science

#### Western University

08/2018 - 12/2019

Ontario,Canada

### Bachelors of Technology

#### Gitam University

05/2013 - 05/2017

Hyderabad,Telangana

## CERTIFICATES

AWS Certified Cloud Practitioner(CLF - C01)

AWS Certified Solutions Architect - Associate

DevOps Essentials

Scrum Methodology - Project Management Institute

Google Cloud Certifies Associate Cloud Engineer - Coursera

Terraform Certified Associate

## TEACHING EXPERIENCE

### Cloud Computing Western University

08/2018 - 12/2019

Canada

##### Tasks/Achievements

- Gave lectures and demos to students on various course modules such as Elastic Beanstalk, Cloud watch and various AWS services.
- Helped students in deploying static website using Amazon S3, Amazon Route 53 and used Amazon CloudFront to enable the website to load quickly.
- Reinforced lessons presented by the professor by reviewing material with students one-on-one or in small groups. Graded all the materials associated with class.
- Received best graduate teaching assistant award.

## LANGUAGES

English  
Full Professional Proficiency

Telugu  
Native or Bilingual Proficiency

Hindi  
Full Professional Proficiency

French  
Elementary Proficiency