

VISHAL YADAV

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Python backend developer with 2.5+ years of expertise in data engineering and web development. Proficient in designing and building API's and ETL pipelines using Azure Data Factory. Additionally, certified Microsoft Data Engineer Associate.

PROFESSIONAL EXPERIENCE

KNOWLEDGE LENS - A ROCKWELL AUTOMATION COMPANY

Bangalore, IND

Software Engineer

Oct 2021 - Present

As a Software Engineer serving multiple consulting clients, I have been instrumental in delivering data-driven solutions that drive business success and decision-making across diverse industries.

- Designed and Implemented orchestration of an Azure-based data lake, assuming end-to-end monitoring responsibilities to ensure seamless data flow for data ingestion, warehousing, and reporting.
- Excellent understanding of **SDLC** and **Agile**.
- Engineered and implemented a robust microservices architecture using the **Flask** framework and **SQL**, successfully designing, deploying, and collaborating on **HTTP**-based backend APIs. This involved enhancing system scalability and performance by efficiently handling **HTTP** requests and responses.
- Executed the implementation of a microservices architecture, leveraging the **Fast API** framework and **SQL**, to develop resilient backend APIs. Configured and utilized key **AWS** resources, including Apache Airflow (**MWAA**), AWS Secret Manager, and **S3 Bucket**, to effectively support project objectives. Additionally, collaborated with PostgreSQL (**PSQL**) database as part of the project requirements, ensuring seamless integration and optimal data management.
- Led the cloud deployment of code utilizing **Jenkins**, taking ownership of the end-to-end documentation process. Responsible for crafting crucial documents such as release documents, feature documents, **unit testing** documents, High-Level Designs (HLDs), and Low-Level Designs (LLDs), ensuring comprehensive documentation and effective communication throughout the development lifecycle.
- Delivered comprehensive training to an intern team, with a specific emphasis on Fast API and Pydantic Model, enhancing their proficiency in modern development frameworks. Spearheaded Proof of Concepts (**POCs**) on Azure and AWS APIs, exploring advanced functionalities like image storage and retrieval using **AWS Boto**. Implemented robust security practices by ensuring the secure handling of passwords through AWS Secret Manager and Azure Key Vault.
- Utilized Terraform to deploy and manage Azure resources for data warehousing, including Azure Synapse Analytics, Azure SQL Data Warehouse, and associated services which led to time savings of up to 75%.

EDUCATION

CENTER FOR DEVELOPMENT OF ADVANCED COMPUTING (C-DAC)

Bangalore, IND

Diploma in Big Data Analytics

2021-2021

DR RAM MANOHAR LOHIYA AVADH UNIVERSITY

Ayodhya, IND

Bachelor of Technology in Computer Science and Engineering

2016-2020

ADDITIONAL INFORMATION

- **Technical Skills:** Python, PySpark, Databricks, Terraform, Flask, FastAPI, AWS, Azure, PostgreSQL, Docker, Github Azure Devops, Azure Data Factory, Azure Synapse
- **Languages:** Fluent in English, Hindi
- **Certifications:** Azure Data Engineer Associate(DP-203)
- **Awards:** Best Team Player, Going above and beyond, Appreciation certificate for writing blogs on Terraform for GCP