

VISHAL YADAV

Software Engineer

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Passionate professional with a strong background in Data Engineering, Project Execution; Focused on leveraging expertise in Data Engineering Leadership to drive successful outcomes and contribute to organizational growth in targeted functional areas and industries

Core Competencies

Date Engineering

Solution Designing

Requirement Gathering & Analysis

Software Development Lifecycle

Python Backend Development

Risk Management

Agile/ Scrum Methodology

CI/CD Methodologies

Education

- Diploma in Big Data Analytics from Centre for Development Of Advanced Computing (C-DAC) in 2021
- Bachelor of Technology in Computer Science and Engineering from Dr. Ram Manohar Lohiya Avadh University in 2020

Certifications

- Azure Data Engineer Associate (DP-203)

Award & Appreciation

- Best Team Player
- Going Above and Beyond
- Appreciation certificate for writing blogs on Terraform.

Profile Summary

- A results-oriented professional with over 2.5+ years of hands-on experience in data engineering and web development using Python. Proficient in architecting and implementing robust ETL pipelines utilizing Azure Data Factory, contributing to seamless data ingestion, warehousing, and reporting, managing data daily
- Committed to treating data as a strategic asset and fostering a culture that prioritizes data quality, resulting in the creation of reusable data products pivotal in enhancing organizational-wide data capabilities, particularly in the finance domain.
- Excellence in delivering innovative, data-driven solutions to consulting clients, resulting in enhanced business success and informed decision-making. Noteworthy achievements include orchestrating critical Azure resources (ADF, Databricks, ADLS, SHIR, Key Vault, Logic App) for a manufacturing client's data engineering project, leading to a 25% cost reduction through meticulous cost optimization strategies.
- Proficient in designing and implementing scalable data warehouses in Azure Synapse, integrating various Azure services for improved performance and cost efficiency while utilizing Terraform to streamline resource deployment, saving up to 75% of time.
- Skilled in Python backend development, specializing in Flask and FastAPI frameworks, with a strong track record of building robust applications utilizing SQL databases, particularly PostgreSQL, to empower interactive React-based user interfaces.
- Proven capabilities in building relationship with clients & partners for evolving strategic vision, driving change, building services roadmap, infusing new ideas, implementing emerging technologies for the long run and taking enterprise system performance & productivity to next level.

Work Experience

Since Oct'21 | Knowledge Lens - A Rockwell Automation Company
As Data Engineer

Key Result Areas:

- Spearheading the design, development, deployment, and management ensuring high availability, security, and scalability.
- Collaborating seamlessly with cross-functional teams to gather project requirements, define clear objectives, and establish project timelines, streamlining development processes and reducing time-to-market.
- Designing and developing critical software modules, showcasing expertise in system design and implementing cutting-edge development frameworks.
- Designing and implementing an efficient orchestration system for an Azure-based data lake, managing a substantial data flow of over 10 terabytes per day managing end-to-end monitoring of data ingestion, warehousing, and reporting processes.
- Leading a crucial data engineering project for a manufacturing client, integrating diverse data sources like SAP, SQL Server and others using essential Azure resources (ADF, Databricks, ADLS, SHIR, Key Vault, Logic App, etc.). Strong emphasis on cost optimization resulted in substantial savings of up to 25%.
- Collaborating in the development of multiple Python Flask and FastAPI services aligning with intricate business rules. These services supported the backend of a significant Angular-based web application for a prominent client on the east coast.

Technical Skills

- Python
- ADLS
- Spark
- SQL and NoSQL
- Azure DevOps
- Terraform
- Azure Data Factory
- Databricks
- Jenkins
- PostgreSQL
- Flask
- FastAPI
- Azure
- AWS
- Azure Synapse Analytics
- ETL
- Kubeflow
- Rest Api

Personal Details

Date of Birth: 10th July 1999

Languages: English & Hindi

Address: Bengaluru, India

- Leading and training a team of 50 interns in Azure-related API proof of concepts (POCs) and proofs of value (POVs)
- Designing and implementing scalable data warehouses in Azure Synapse, prioritizing performance and cost efficiency. Integration with other Azure services such as Azure Data Lake Storage and Azure Databricks was a key focus. Utilized Terraform for deploying and managing Azure resources, resulting in significant time savings of up to 75%.
- Proficient in utilizing Terraform to deploy GCP resources, with a strong understanding of GCP Cloud, and experienced in automating the retrieval of spreadsheets from Google Drive using the Google Drive API and service accounts for ETL processes, facilitating their subsequent use in generating reports.
- Proficiently managing AI/ML models provided by clients, overseeing end-to-end data operations including data cleaning, preparation, storage, and meaningful insights generation. Orchestrating multiple models using Kubeflow, ensuring seamless data flow and enhancing production efficiency by 30%. Utilizing Python expertise and various libraries to conduct data validation in alignment with client requirements, contributing to a streamlined workflow and optimized data processes.
- Conducting comprehensive code reviews, providing constructive feedback to enforce best practices in code quality, maintainability, and consistency. Offered mentorship to junior developers, fostering a culture of continuous improvement.
- Troubleshooting and resolving complex technical issues, ensuring system stability, and optimizing performance consistently.
- Educating and coaching team on Agile methodology to achieve quality handover within time and cost guidelines