Avratanu Sarkar

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Summary

Data Engineer and Integration Developer with a strong focus on optimizing data workflows with nearly **5 years** of experience in **ETL, data transformation and modeling.** Skilled in integration development using **SnapLogic iPaas and AWS using Python** to streamline data processes and enhance business efficiency.

Experience

Deloitte USI Consulting India Pvt Ltd | Bangalore
Consultant (Python Integration Developer) | 10/2023 - Present

- Design comprehensive architectural diagrams and technical documentation that intricately detail the design of solutions based on the business requirements.
- Design the integration between the legacy systems and Oracle modules, encompassing grants management, financial projects, customer accounts, and contracts. This entails a two-step process involving :
  - Development of the pipeline in AWS cloud platform, using Lambda functions, Step Functions, EventBridge and choice blocks for logic implementation, S3 Buckets for file storage and DynamoDB for transaction logging and tracking. Also, define IAM roles for permissions of resource management.
  - Data is ingested by either reading data from files placed in S3 buckets or through payloads passed during API calls. Core logic development within AWS Lambdas is written in Python for the data transformation and loading into Oracle modules via REST APIs.
- Responsible for demonstrating techno-functional aspects post each sprint within an Agile methodology framework, utilizing JIRA for tracking project progress.

Analyst/Consultant (SnapLogic ETL/Integration Developer) | 08/2019 - 10/2023

- Crafted technical architectural diagrams based on business requirement analysis and comprehensive technical documentation, ensuring clear communication of data integration solutions across migration projects and real-time data /delta load delivery.
- Designed and developed data pipelines to address complex functional requirements, forging efficient workflows that encompass integration :
  - With diverse file-based systems including Azure Cloud Blob storage, SFTP/SMB servers and HDFS.
  - Through REST/SOAP APIs with Master Data Management systems, Enterprise Analytics platforms, ERP systems like S4 HANA and CRM systems such as Salesforce.
  - Implementing pub-sub model using Kafka as a staging layer, coupled with KSQL for dynamic ETL real-time streaming.
  - With SQL Server, Oracle DB and SAP tables.
- Conducted comprehensive load and performance testing for pipelines to device scalable data solutions that can adapt to growing data volumes and evolving business needs.
- Conducted performance tuning and optimization of pipelines and Kafka configurations, resulting in improvement in data processing speed and responsiveness.
- Assisted in designing and implementation of a robust supportability framework in client specific environments to monitor, log and track data integration processes, ensuring real-time visibility into system health and data flow.

Skills

SnapLogic iPaas, Python, AWS, Kafka, SQL, ETL, REST API, JSON, XML, Git/GitHub, JIRA, ServiceNow, GCP, SOAP, Data Warehouse, Data Modeling, Java, Spark

Certificates

SnapLogic Certified Integrator , MuleSoft Certified Developer , MTA Networking Fundamentals

Achievement

- Received 5 awards and several verbal mentions from Deloitte for outstanding project contributions
- Certified upon successful completion of Core Data Fundamentals program at Deloitte AI Academy

- Ranked in the top 9 teams in Google Cloud Battlefield competition across Deloitte and HashedIn firms hosted across 4 different locations and 70+ teams
- Completed Generative AI and GCP challenge, earning badges from Google

Education

KIIT University | Bhubaneswar, Odisha
BTech (Electronics and Telecommunication) | 05/2019

Languages

English, Hindi, Bengali