Shivam Jindal

Cloud Lead Data Engineer

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Professional Summary

Accomplished Technical Lead with over a decade of experience in **cloud services** and **data integration**. I specialize in architecting and deploying robust data pipelines and multi-cloud infrastructures that significantly enhance **data accessibility** and **processing efficiency**. I excel at leading cross-functional teams to implement automated frameworks and uphold high standards of **code quality** through continuous testing and monitoring. My focus is on leveraging advanced technologies to deliver scalable, innovative solutions that align directly with organizational objectives.

Work History

Technical Lead
Jan 2022 - Present

Cognizant Technology Solutions India Pvt Ltd, Noida, India

- Constructed a data lake called CDP (Customer Data Platform) by facilitating data collection and unification from 50+ sources (like Salesforce CRM System, Veeva Vault/Align, PrecisionAI, Crystal, Truman, Veeva Link, etc).
- Integrated these data sources with the Data Lake through the AWS and Snowflake data pipeline.
- Integrated applications like Tableau and Power BI, with the Snowflake Analytics layer for reporting and generating insightful reports and dashboards to enhance customer understanding. Also, to enable data-driven decision-making through comprehensive analytics solutions.
- Applied integration strategies with AWS Glue and Spark, improving data processing efficiency by 30%.
- "Architected and deployed scalable, automated data pipelines using AWS Lambda and Terraform, reducing manual effort and improving data availability.
- Streamlined data processing by incorporating continuous integration/continuous deployment practices, enhancing speed by 20%.
- Developed a comprehensive test suite using PyTest, increasing code coverage by 85% and ensuring greater application stability.
- Implemented SonarQube checks to ensure code met deployment gate standards, enhancing code quality.
- Engineered automated pipeline recovery approach with AWS Step Functions, reducing incident resolution time by 35%.
- Developed a data cataloging system utilizing Athena, SQL, and Python, improving raw data accessibility by 50%.
- Facilitated the integration of AWS data into Snowflake through optimized ETL processes, enhancing downstream reporting capabilities.

Personal details

Date of birth
February 8, 1993

Gender
Male

LinkedIn
linkedin.com/in/shivam-jindal-88409973

Skills

Python and PySpark

SQL, Athena, and Unix

AWS and GCP services

Snowflake and data warehousing

Data integration and pipeline development

Cloud solutions management

Version control with Git

Project management tools (JIRA, Azure DevOps)

API development and testing

Infrastructure as code (Terraform)

Monitoring and logging strategies

Code inspection (SonarQube)

Documentation (Confluence)

Python testing (unittest, pytest)

IDE tools (PyCharm, VS Code)

Requirements gathering and

- Enforced RLS policies to enhance data security and control access using advanced data governance tools.
- Designed a robust global data pipeline with Python for seamless data flow across regions, improving regional accessibility by 40%.
- Spearheaded a data governance framework using AWS Lambda and Python scripts, improving compliance by 30% through continuous, real-time quality checks.
- Engineered centralized framework for system log monitoring, providing notifications to Operations via email and MS Teams.
- Streamlined the error logging process by automating ticket generation in ServiceNow, providing detailed error reports and reducing manual effort
- Aligned with cross-functional teams to deploy multi-cloud infrastructure solutions, improving data processing efficiency.
- Directed migration of legacy systems to AWS cloud significantly reduces infrastructure costs and enhances system stability.

solution architecture

Python API Developer — Jan 2019 - Jan 2022
ST Microelectronics, Noida, India

Radiology Insights Dashboard *(Jan 2019 - Jul 2019)*

- Developed web application utilizing FastAPI framework to enhance functionality.
- Led API team in designing, developing, and maintaining RESTful endpoints for web application.
- Built backend integrations with various services to enable seamless data exchange using Python.
- Enhanced application security by integrating GIGYA login framework for authentication.
- Implemented JWT tokenization for securing API endpoint access post-login.
- Utilized GCP resources including Workstation, Secrets, and Big Query for cloud operations.
- Collaborated with Angular UI team to improve end-user interface experience.
- Optimized API performance through asynchronous programming and caching techniques.
- Fulfilling requirement of API endpoints based on new requirement/enhancement.
- Working with GCP Big Query to ensuse efficient data storage and retrieval used in Api endpoint.

PRISMA ModelN Registration and CMDM *(Jul 2019 - Jan 2022)*

- Engineered middleware between SAP and ModelN, leveraging AWS Services (Lambda, Glue, S3, Snowflake).
- Automatic file validation and data transformation process from Window server, web browser, and S3 to Snowflake.
- Extensively worked on XML and CSV data formats, optimizing pipelines for large-scale processing.
- Worked in various AWS Services like Lambda Functions, Step Functions, Glue, Cloudwatch, SNS, Eventbridge, S3, Dynamo DB, etc.
- Resource creation and Maintenance of repo in GitHub.

API Developer   Sep 2018 - Jan 2019
Sopra Steria India Limited, Noida

- Working as an API developer, building APIs using Axway API Studio.
- Working on Axway API Gateway Manager to manage front end UI and back end APIs management.
- Stopping instances one by one to deploy build (change) package on server using Axway inhouse tools and then restarting the instances to achieve zero downtime.

Software Engineer   Mar 2015 - Sep 2018
Tata Consultancy Services, Gurgaon, India

- Develop, maintain, and troubleshoot system interfaces for seamless data exchange.
- Working with relational and non-relational databases, ensuring efficient storage, retrieval, and optimization.
- Monitor and manage batch jobs, ensuring timely execution and troubleshooting failures.
- Analyze system performance metrics and implement improvements for efficiency.
- Develop scripts to automate routine tasks and enhance system reliability.
- Ensure system security by implementing best practices and compliance measures.
- Maintain clear documentation for system configurations, processes, and troubleshooting guides.
- Working closely with cross-functional teams to resolve technical issues and improve system functionality.

Education

Bachelor of Technology Mechanical Engineering   2014
GLA Institute of Technology and Management, Mathura Uttar Pradesh India

Senior Secondary School   2010
AIR FORCE SCHOOL, Agra, Uttar Pradesh

Secondary Eduction   2008
AIR FORCE SCHOOL, Agra, Uttar Pradesh

Certifications

AWS Certified Cloud Practitioner   2023
Certification URL: https://cp.certmetrics.
com/amazon/en/public/verify/credential/7F8813QLQE1E10W0