Rica Mae Lacson

+639776929834 lacsonrica@gmail.com Filipino www.linkedin.com/in/rica-mae-lacson/

Data Engineer

Data Engineer with 5+ years of experience designing and optimizing scalable data platforms for analytics and AI/ML initiatives within the AWS ecosystem. Proficient in delivering high-performance solutions using Python, PySpark, Databricks, and AWS services (S3, Redshift, Glue, Lambda). Proven expertise in automating infrastructure with Terraform and CI/CD to enhance data quality and support business intelligence. Familiar with multi-cloud environments, including foundational knowledge of Microsoft Azure data services.

Educational Background

Bachelor of Science in Electronics Engineering - (May 2013 - April 2018)
Don Honorio Ventura State University

Professional Experience

Data Engineer (April 2024 -) - Prosource BPO

Client - IRESS

- Orchestrated AWS infrastructure deployment and configuration using Terraform, optimizing resource allocation and improving operational efficiency.
- Designed and implemented data processing pipelines with Databricks and PySpark, streamlining ETL workflows for large-scale financial datasets to support critical decision-making and analytics.
- Developed and optimized BuildKite CI/CD pipelines in close collaboration with development teams, automating deployment and testing to ensure rapid, reliable feature delivery.
- Led performance monitoring and optimization efforts, proactively identifying and resolving bottlenecks to maintain high availability and system efficiency.
- Accelerated development cycles by leveraging Databricks Assistant (Genie) to generate, optimize, and debug PySpark code, increasing team productivity for complex ETL tasks.
- Engineered and scaled AI-ready data pipelines using Databricks and PySpark, processing large-scale financial datasets to power real-time BI dashboards and support machine learning model training.

Skills: Databricks | Pyspark | Terraform | BuildKite | Python | AWS Environment | JIRA | SQL | AI | LLM

Data Engineer (June 2023 - April 2024) - InfoAlchemy

- Architected and automated serverless ETL pipelines using AWS Glue and Lambda
- Developed data ingestion pipelines to efficiently bring in substantial volumes of data from diverse sources into an AWS-based data lake.
- Implemented complex big data projects with a focus on collecting, parsing, managing, analyzing, and visualizing large sets of data to turn information into insights using multiple platforms.
- Lead the strategic planning, execution, and management of data infrastructure, including databases, tools, and systems; ensuring high levels of data quality and availability.
- Utilized Amazon Redshift, Athena, and other AWS technologies to improve the efficiency of data retrieval and effectively handle the analytic workloads.
- Worked collaboratively with business analysts and Data Scientists to understand data needs and data-driven solutions.
- Mentored a team of 3 junior data engineers on cloud architecture and data warehousing best practices, improving team-wide code quality and reducing the onboarding time for new hires.

Skills: AWS Cloud (Lambda, Glue, EC2, EventBridge, Redshift, Athena, Kinesis, IAM, S3) | SQL | Python | Pyspark Microsoft (Microsoft Fabric)

Data Engineer (September 2022 - May 2023) - DTN

- Design, Develop, and test features and fixes of the product by leveraging Python packages, serverless framework, and AWS services and technologies.
- Part of the team that designs develops, fix a platform that utilizes Python, AWS Lambda, AWS Cloudformation, and Serverless framework.
- Part of the team that designs develops, fix the API that exposes data from the platform.
- Successfully refined infrastructure deployment of the platform using AWS Cloudformation and Bamboo CI/CD to be able to successfully deploy the platform in production.
- Successfully designed and migrated an existing system from on-premise lab to AWS services utilizing several AWS Services such as, but not limited to, Containerized Lambda deployed in Serverless, Cloudformation, SQS, SNS, EC2 on an Autoscaling Group, Webserver on an EC2 service. All while being deployed by Bamboo.

Skills: AWS Cloud (Lambda, Glue, EC2, EventBridge, Redshift, Athena, Kinesis, IAM, S3) | PostreSQL | Python | Typescript | CI/CD

Software Engineer (December 2020 - September 2022) - Accenture

- Developed ETL mappings using Informatica PowerCenter and prepared corresponding documentation.
- Implemented versioning of the ETL repository and supporting code as necessary
- Developed stored procedures, database triggers, and SQL queries where needed.
- Implemented best practices and tuned SQL code for optimization.
- Participated in Code review and UAT tests.
- Interpret data, and analyze results using SQL Developer, DBMoto, and Informatica PowerCenter to provide ongoing reports.
- Develop and implement databases, data collection systems, data analytics, and other strategies that optimize efficiency and quality.
- Acquire data from primary or secondary and maintain databases/data systems.
- Python Programming Project - Developed a personal project for managing inventory and generating reports

Skills: Informatica PowerCenter | Unix Scripting | SQL | AWS Cloud

Quality Assurance Engineer (August 2019 - November 2020) - Kodec

- Establish and maintain Quality Management Systems in Production.
- Prepare regular Quality Reports such as QAN, 8D Reports, and FMEA.
- Develop and monitor performance metrics for all processes in the Production.

Skills: Data Analytics, Excel, Data Reporting

Certifications

- AWS Certified Cloud Practitioner (2021-2028)
- AWS Certified Developer Associate (2021-2024)
- AWS Certified Solutions Architect (2021-2024)
- AWS Certified Data Engineer Associate (2024-2028)