Saumya Bhardwaj

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PROFESSIONAL SUMMARY

Results-driven and highly motivated developer with 3+ years of expertise specializing in optimizing data workflows through strategic use of AWS ETL tools. Proven track record of designing and implementing more than 20+ data pipelines using Amazon Glue AWS Lambda and other ETL services seamlessly integrating diverse data sources into centralized repositories. Adept at converting information from different sources into useful data for business growth purposes. Skilled in using AWS services, Glue, Lambda, PySpark, and more.

Demonstrated proficiency in problem-solving evidenced by implementing robust error-handling logics within pipelines resulting in enhanced reliability and numerous client appreciations. Expertise in performance optimization and ensuring data quality throughout the ETL process. Well-versed in SQL for robust data querying and analysis. Committed to staying ahead of the curve in AWS ETL technologies continually incorporating the latest advancements into project workflows.

EDUCATION

Bachelor of Technology (B.Tech.)   [August 2017 - August 2021]
Acropolis Institute of Technology and Research
Computer Science

SKILLS

Professional Competencies
AWS ETL Expertise | AWS Services | AWS Athena | PySpark | AWS Glue | AWS Lambda | SQL Proficiency | CICD Deployments | DevOps | Data Modelling & Validation | Problem-Solving Skills | Cross Functional Collaboration | Strategic Thinking and Planning

Skills
Python (NumPy, Pandas) | AWS (Lambda, Glue, DynamoDB, RDS, DMS, S3, CloudFormation, Step Function, SNS, SQS, Data Sync, EventBridge & More) | AWS Athena | PySpark | Linting | Bazel | AWS ETL Tools & Services | SQL | API (REST GRAPHQL SQL POSTGRESSQL) | Informatica - PowerCenter | Linux Scripting (Intermediate) | Object Oriented Programming | Agile Methodologies | Telnet | DevOps

Software & Tools
AWS | Git | Bazel | Linting | Visual Studio | SQL Server Management Studio | Postman | Informatica | DBeaver

WORK EXPERIENCE

Data Engineer
TCS   [July 2021 - Current]

- Spearheaded the development of diverse data pipelines for energy and resource units showcasing proficiency in handling various data sources and employing strategic planning sessions for effective development.
- Developed robust pipelines for diverse data sources ensuring data usability for business applications.
- Collaborated with cross-functional teams to gather requirements and tailored pipelines to meet specific needs.
- Managed various data sources including SQL Amazon S3 RESTful APIs GraphQL PostgreSQL Fileshare and DataLake.
- Utilized Python (NumPy Pandas) and AWS Lambda/Glue to implement logic fetch data and transform it to meet project requirements.
- Contributed to strategic planning sessions enhancing the relevance of the development process.

- Implemented effective error-handling logics within pipelines to ensure robustness and reliability.
- Received numerous client appreciations for prioritizing development deliveries and resolving production environment issues promptly.
- Utilized a range of AWS development services such as Lambda Glue DynamoDB Amazon S3 Cloud Formation Step Function DMS Aurora and Redshift in designing and implementing data pipelines.
- Took initiatives in deploying big data pipelines for handling extensive data sources contributing to system scalability.
- Leveraged excellent communication skills to optimize data transformation within pipelines.
- Applied innovative thinking to enhance overall business insights through effective data handling.
- Worked on marketing campaigns to help businesses grow and learn more about their customer base and needs, using skills to modify information from different sources and transforming it into data for business growth. Applied innovative thinking to enhance overall business insights through effective data handling.

KEY PROJECTS

Project Title	British Petroleum - DataHub AWS
Description	As a **Data Pipeline Developer**, I undertook the responsibility of designing and implementing diverse data pipelines tailored to specific user requirements and varying data sources. This encompassed the development of pipelines ranging from small-scale solutions to high-capacity data processing systems.
Role	Data Engineer
Skills and Tools Used	**Skills**: Python | AWS Lambda | AWS Glue| AWS DMS | AWS Cloud Formation (Template & Service) | AWS DynamoDB | AWS S3| AWS Step Function |AWS ETL Tools & Services | SQL | API (REST / GRAPHQL/SQL/POSTGRESSQL) | Python – NumPy / Pandas **Tools**: AWS | Git | Visual Studio | SQL Server Management Studio | Postman | DBeaver
Responsibilities	• Pipeline Development. • AWS service utilization. • Data Source expertise • Cross Functional Collaboration. • Strategic Planning. • Communication and Innovation.

Project Title	British Petroleum – ROS-OCX
Description	As a **Data Engineer,** collaborated with the ROS-OCX team to transform data into useful information for British Petroleum, aiding in business campaigns such as offers to loyal members, user registration for apps, wallet/payment method additions, and running multiple campaigns to gain more customers and make offers on retail sites.
Role	Data Engineer
Skills and Tools Used	**Skills**: Python | PySpark |SQL | AWS SDK | Data Transformation | Business Analytics **Tools**: AWS Glue | AWS Lambda | AWS Athena | AWS CloudFormation | S3 | AWS Step Functions | AWS CloudWatch | boto3 | WSL
Responsibilities	• Data transformation and analysis for business campaigns • User registration and engagement tracking • Campaign development for customer acquisition and retention • Utilized various AWS tools for efficient data handling and processing

LANGUAGE SKILLS

- **English** (Fluent)
- **German** (Basic)