# Rahul J

Location: Bangalore, India

# **Objective**

I am eager to tackle challenging tasks that utilise my technical skills and knowledge to contribute to company growth. Committed to continuous learning to meet future company needs.

## Education

• B.E. Mechatronics

Mahendra Engineering College, 2019–2023

CGPA: 8.43

• HSC

St. Mary's School, 2017-2019

Percentage: 66

• SSLC
Percentage: 86

St. Mary's School, 2015-2017

# **Internship Experience**

Data Engineering with AWS - BridgeLabz

*Aug 2024 – Dec 2024* 

- Conducted exploratory data analysis and visualisation using tools like NumPy, Pandas, Matplotlib, and Plotly.
- Worked on foundational programming and advanced data engineering concepts, including Python, Hadoop, Spark ,and PySpark.
- Designed and implemented ETL/ELT processes and developed data pipelines using AWS services (S3, RDS, DynamoDB, Lambda, Redshift).
- Gained exposure to machine learning, GenAI, and MLOps, with practical applications in real-world scenarios.

# **Projects**

### **AWS Project: Data Pipeline on AWS**

• Objective: Developed a data pipeline that automatically converts CSV files stored in an S3 bucket into JSON format and stores them in another S3 bucket.

## Key Components:

- o AWS Glue: Configured an ETL job for data transformation.
- AWS Lambda: Set up a function with a trigger to automatically initiate the Glue job upon file upload.
- o IAM Role: Created and configured an IAM role with necessary permissions for Glue and Lambda services.

#### • Workflow:

- Uploaded a CSV file to the input S3 bucket.
- Lambda triggered the Glue job, which processed and converted the file to JSON.
- Verified the output in the target S3 bucket.

### **AWS Project: End-to-End Data Pipeline**

• **Objective**: Designed a complete data pipeline for data processing and analysis using AWS services, integrating data ingestion, transformation, and querying.

## • Key Components:

- o **CloudFormation**: Automated resource setup, including S3 bucket and Redshift cluster.
- AWS Glue: Created a database, crawler, and ETL job for cataloguing and transforming data from S3 to Redshift.
- o **Redshift Query Editor v2**: Connected to the Redshift database to execute SQL queries for validation and insights.

## Workflow:

- Set up S3 bucket and Redshift cluster using CloudFormation.
- Catalogued data in AWS Glue using a crawler linked to the S3 source.
- Configured and ran ETL jobs to prepare data for analysis.
- Queried the processed data in Redshift for insights.

## **Technical Skills**

- **Programming:** Python, Java, JavaScript
- Big Data & Cloud: Hadoop, PySpark, AWS (S3, RDS, DynamoDB, Lambda, Redshift)
- Web Development: HTML, CSS
- Frameworks & Libraries: Hibernate, JDBC, Spring Boot (Basics)
- Database: MySQL, MSSQL
- Tools: Git, GitHub, Postman, VS Code, SSMS, Eclipse

## Certification

- Certified in Java Full-Stack from JSpiders Basavanagudi Bangalore.