JOB ADVERTISEMENT – DATA ENGINEER

Job Title: **Data Engineer**
Reports to: **IT Manager Software Services**
Department: **IT Services**
Duty Station: **Kigali International Airport (KIA)**

Job Purpose

This role will be responsible for creating reliable software programs for building highly scalable data pipelines to collect a large amount of data from different sources and transform it into a usable format for analysis and decision making. Responsibilities include building real-time and batch data ingestion pipelines, setting up of data catalogues, data warehouses, data cleansing, data transformation, data processing and data visualization to provide real-time intelligence to businesses.

1.   **Key Duties and Responsibilities:**
   - Construct, deploy, test and maintain highly scalable and optimized data pipelines with state-of-the-art monitoring and logging practices.
   - Develop software programs or use tools to bring together large, complex and sparse data sets to meet functional and non-functional business requirements and use a variety of languages, tools and frameworks to marry data.
   - Design and implement data tools for analytics and data scientist team members to help them in building, optimizing and tuning of use cases.
   - Develop and manage data warehouses to ensure the availability, performance, scalability and security of production data warehouse.
   - Develop software programs or use tools for cleansing and harmonization of data from a variety of data sources.
   - Defines data catalogues, metadata to provide search ability and governance (including Records Management) for structured and unstructured data.
   - Implement best practices in management of data, including master data, reference data, metadata, data quality and lineage in assigned areas.
   - Develop business intelligence dashboards using data visualization tools.
   - Conduct and own Root Cause Analysis (RCA) of reported incidents in operational systems through code, log and configuration reviews and ensure timely code, configuration or infrastructure fixes.
   - Develop REST APIs from the existing dataware house as the source for application consumption.
   - Build solutions which are scalable, resilient and sustainable to address business requirements.
   - Works closely with a team of frontend and backend software engineers, business solutions architects and analysts.
   - Perform other department duties related to his/her position as directed by his or her direct supervisor.

2.   **Desired Profile: Required education, Experience, and Abilities;**
   - BSc degree in Computer Science, Engineering or relevant field with a minimum 2-3 years of hand-on experience in data management.
   - At least 3+ years of Python, SQL and Java development experience.

- At least 2+ years of experience with schema design and dimensional data modelling
- Hands-on experience in working with big data using technologies like Hadoop/Hive, Hyperscale PostgreSQL, Java/Scala, Spark, Kafka, SQL and NoSQL, azure cloud-based data engineering solutions
- Hands on experience with data ingestion tools (ex: striim, streamsets, NiFi, Flume, Dropbase).
- Hands-on experience in data modelling, data visualization, and pipeline design & development.
- Hands on experience with data warehouse platforms (ex: Snowflake, Azure Data Lake Analytics).
- Strong technical knowledge of performance tuning and query optimization on large data sets.

Preferred

- Experience with cloud-based data-warehousing system Snowflake.
- Experience with ETL tool Informatica.
- Experience with data visualization tools like Tableau, PowerBI
- Knowledge of agile/lean software development methodologies.
- Very good command of English language

3. **How to Apply:**
- An application letter addressed to the Chief HR & Administration Officer;
- Recent Curriculum Vitae;
- Copies of Notarized Degree/Diploma certificates;
- Relevant certificates;
- Copies of academic papers;
- A photocopy of the Passport/National ID;
- Three referees;

The deadline for submitting application documents **(Only PDF Format)** is **February 02, 2025**. Please apply via the link: https://erecruitment.rwandair.com/