Sanka Weerathunga

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AWS Certified Data Analytics - Specialty & AWS Solution Architecture Associate with experience in **Data engineering and analytics** working with both structured and unstructured datasets in **Data Lake environment, Data Warehousing and Cloud Computing.**

Worked on analysis, design and implementation of enterprise **data lake** and data warehouse using **AWS S3**, **Glue**, **IAM roles, Athena, PySpark and Azure SQL, Azure Databricks.**

Worked on Spark-SQL with various data sources like JSON and Parquet in S3 and HDFS.

Skilled in developing **Dimensional Data Modeling**, **Star Schema Modeling, Snow-Flake Modeling, FACT and Dimensions Tables.**

Skills in both technical and functional applications of **RDBMS, Data Mapping, Data management, Data Analysis, Data transportation and Data Staging.**

Possesses strong knowledge of database management in writing complex **SQL queries**, analyzing execution plan and query optimization.

Worked on installing, configuring and automating **continuous integration and continuous deployment** tools. Experienced in creating and implementing interactive charts, graphs, and other user interface elements for reporting.

TECHNICAL SKILLS

Programming languages	: SQL, Python, PySpark, R, Scala, C#
Databases	: Oracle Database, MS SQL Server, MySQL, KUDU, MongoDB, Couchbase
Data Science	: Spark, Hadoop MapReduce
ETL	: Airflow, Shell Script, PySpark, Databricks, AWS Glue
Cloud Platforms	: Amazon Web Services, Azure, Databricks
Data Visualization	: Microsoft Excel, Tableau, PowerBI, Python, R
Data Warehouse	: AWS Redshift, Snowflake, Star Schema, Snowflake Schema

PROFESSIONAL EXPERIENCE

Senior Data Engineer   **Jan 2019 - Dec 2022**
Axiata Digital Labs   *Sri Lanka*

- Working in an agile team to develop real-time visualization (monitoring and operational) dashboards.
- Creating data pipelines using the Hadoop platform to extract data from real-time Kafka feeds using Kafka consumer programs into Kudu tables.
- Creating ETL processing Scripts using shell scripts.
- Prepossessing the data and combining hierarchy details, targets and more according to customer requests.
- Creating a daily monitoring process for the whole process to ensure every part of the data pipeline is running accurately.
- Developing operational dashboards and analytical interactive dashboards using tableau for different levels of sales hierarchy.
- Produced the following dashboard additions to sales dashboards; Customer experience evaluation, Retailer performance evaluation, e-money fraud detection, etc.

Data Engineer   Jul 2018 - Dec 2018
Dialog Axiata PLC   *Sri Lanka*

● Developed analytical dashboards to evaluate customer experience in customer service centers using tableau.

Software Engineer   Jun 2017 - Dec 2017
Asoft (Pvt) Ltd.   *Sri Lanka*

● Designed and implemented a web application, and an inventory management system using MVC (Model, View, Controller) architecture.
● Designed and implemented the backend modules.
● Designed the database schema.

ACADEMIC PROJECTS

An advanced back-testing tool for forex Traders
● Developed enhanced back-testing tool that includes four main features: short-term price trend predictions and hybrid back-testing to evaluate forex trading strategies, trading strategy optimization and anomalous time periods detection.
● Developed a model to predict short-term trends in forex market prices using price data of EURUSD currency pair by combining a Recurrent Neural Network with an ARIMA (time series forecasting) model.

EDUCATION

Ontario College Graduate Certificate (Post-Graduate)   Sep 2023 - Present
Conestoga College   *ON, Canada*
● Field of study: Big Data Solution Architecture
● Current GPA: 3.86

Bachelor of Science (Honors) in Information Technology   Mar 2014 - Aug 2018
University of Moratuwa   *Sri Lanka*
● Publications: Weerathunga HPSD, Silva AT. DRNN-ARIMA Approach to Short-term Trend Forecasting in Forex Market.18th International Conference on Advances in ICT for Emerging Regions (ICTer)Sep. 2018 (pp. 287-293).

CERTIFICATES

AWS Certified Solutions Architect – Associate   May 2023
Amazon Web Services Training and Certification
AWS Certified Data Analytics – Specialty   Aug 2023
Amazon Web Services Training and Certification
Big Data Modelling and Management Systems   Nov 2019
Coursera
Google Cloud Fundamentals: Core Infrastructure   Jun 2019
Coursera
Distributed Computing with Spark SQL   Feb 2023
Coursera