Name: Ndou Daniel

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Summary

Dedicated and results-driven Technical Specialist with a strong educational foundation in Computer Science and Information Systems (BSc) with over 7+ years' experience in IT. Offering comprehensive expertise across AWS (Amazon Web Services) and Big Data technologies, including roles as a Big Data Hadoop Administrator, Big Data Engineer, and Informatica Big Data Quality Developer. Excels in designing, developing, managing, and supporting core On-premises and cloud Big Data infrastructure. Proven track record of collaborating with cross-functional teams, optimizing production services, and resolving complex issues. Eager to leverage technical skills and industry knowledge to contribute to cutting-edge projects.

Experience:

Big Data Hadoop Administrator

FNB South Africa, Johannesburg   21 June 2021 – Present

Managed and administered on-premises Hadoop clusters, ensuring optimal performance, scalability, and reliability. Collaborated with cross-functional teams to design, implement, and maintain Hadoop-based solutions for diverse business needs. Conducted regular system monitoring, troubleshooting, and performance tuning to enhance overall cluster efficiency. Implemented security measures to safeguard Hadoop clusters, including authentication, authorization, and data encryption. Deployed and managed Hadoop clusters on Amazon Web Services (AWS) infrastructure, utilizing services like Amazon EMR,EC2,S3, etc. Worked closely with cloud architects to optimize Hadoop configurations for AWS environments, ensuring cost-effectiveness and high availability. Implemented automation scripts using tools such as Ansible to streamline cluster deployment and maintenance processes. Conducted regular audits and performed backups to ensure data integrity and disaster recovery readiness.

Big Data Engineer

ABSA Bank, Johannesburg   01 Jan 2020 - 20 June 2021

Spearheaded the design and implementation of a robust big data architecture, utilizing technologies such as Apache Hadoop, Spark, NIFI and Kafka. Collaborated with cross-functional teams to gather and analyse business requirements, translating them into effective data engineering solutions. Developed and maintained ETL processes to extract, transform, and load data into the data lake, ensuring data quality and integrity. Implemented and optimized data pipelines for real-time and batch processing, improving overall system performance. Assist application development teams during application design and development for highly complex

and critical data projects; Maintain existing ETL workflows, data management, and data query components. Algorithm development on high-performance systems. Support production Data pipeline applications. Drive the optimization, testing, and tooling to improve data quality. Create data management policies, procedures, and standards.

Informatica Big Data Quality Developer

KID Group (Consultant at ABSA), Johannesburg   02 May 2018 - 30 December 2019

Use Informatica Big Data Quality to profile the project source data. Utilize Informatica Developer, Informatica Power, Informatica Metadata Manager, and Informatica Analyst to design and develop custom objects and rules, reference data tables and create/import/export mappings. Develop data quality processes including translation, parsing, analysis, standardization, and data enrichment using IDQ and BDQ transformation. Developing, programming testing, deploying, maintaining, and documenting a project's data quality procedures and its outputs. Involved in creating Hive tables, loading with data, and writing Hive queries which will run internally in Map Reduce way.

Master Data Management

Tarsus Technology Group Johannesburg   01 June 2017 to 30 April 2018

Centrally creating and changing master data records Controlling and monitoring the master data processes (for example, the creation, consolidation, and distribution of master data). Providing leadership in data management activities such as designing data models or developing new data management practices Ensuring that data is accurate by conducting audits and identifying trends that may indicate problems with data quality.

Tarsus Technology Group: Johannesburg Graduate Trainee (01 March 2016 - 31 May 2017)

Education:

 Bachelor of Science in Computer Science and Information Systems University of Venda, Thohoyandou (2016)

National Senior Certificate (Grade 12) Khangale Secondary School (2011)

Training Courses with Certificates:

 Unix Operating System Essential, AWS Certificates: AWS Cloud Practitioner Querying, Microsoft SQL Server 2014 Database, Administering Microsoft SQL Server 2014 Database, Implementing Data warehouse with Microsoft SQL Server 2014, Informatica Data Quality Management for Developer Administrator Training CDP Private Cloud Base–301504

Technical Skills:

Cloud Platforms: AWS (EC2, RDS, S3, Lambda, EMR, EKS) and Azure
Automation & Scripting: Python, Linux Ansible, Jenkins, Chef, Puppet
Infrastructure Management: Terraform ,CloudFormation
Programming Languages: Python, Java, SQL, HQL, Scala, Spark
Big Data Technologies: Hadoop, Spark, Hive, EMR, Informatica
Databases:SQL, Oracle, Microsoft SQL, Teradata, SQL Server, NoSQL (Hbase, Mongo DB) Cloud-Based Databases (Hive, RDS, Athena Dynamo DB)
Networworking: IP, DNS, DHCP,HTTPS,VPC
Security: Cloud Security, Ranger IAM Permissions
Data Acquisition: Pipeline creation, Automation, and data delivery once off and Streaming
Operating System: Linux, windows
Database Development: Views, functions, stored procedures, Optimization of queries
ETL:SSIS, Informatica, Apache NiFi,Redshift, Glue, Sagemaker Programming:SQL (TSQL /HQL etc), Java, Python, Scala, UNIX & Shell Commands
Modelling: Kimball, 3rd Normal Form, Big Data,Hadoop Platform (Cloudera & Hortonworks) HiveQL Spark, Optimizing Big Data,Streaming (NiFi / Kafka)
Methodologies: Agile, DataOps / DevOps

Core Competencies:

Excellent communication skills, both written and verbal.
Objective oriented with strong client delivery focus.
Ability to understand and comprehend complex environments and systems.
Client focused by building strong trusting relationships with clients.
Time management and organizational skills.
Proven problem-solving and analytical aptitude.
Strong organizational and time management skills.
Excellent customer service and teamwork abilities.
Continuous learning and adaptation to new technologies.
Keen to figure out how things work.
Ability to develop & grow technical teams.
Teamwork and collaboration.

References:

Carlos Machaba ABSA Technical Team Lead Contact: +27 721149516

Kleinboy Moshole KID Group Team Lead Contact: +27 76872590