**Unathi Mtwa**

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**PROFILE SUMMARY**

I am a Data Engineer with over 5 years’ experience specializing in optimizing data experiences for clients across the Banking, Rail and Port Logistics, Healthcare, Education, and FMGC industries. I am well versed in data platforms such as Snowflake, Databricks, Amazon Web Services (AWS), QlikView, Health-bridge, Basic Network Communication System (BANCS), and SAP. Through these platforms I built efficient data pipelines, streamlining data extraction, transformation, and loading (ETL) processes to translate raw data into meaningful insights for both internal and external decision making. I am committed to continuous professional development as demonstrated by my completion of various Data Science and Engineering certifications, tutoring international students in Data Analytics, and volunteering in Data Analysis.

**SKILLS**

- SQL Server - Big data

- Matillion/Snowflake/Databricks - Microsoft Excel

- SAP Data Services - Salesforce - Interpersonal and communication skills - Problem Solving

- Python/SQL - Project Documentation

- AWS/Azure - PowerBI/Tableau

**PROFESSIONAL EXPERIENCE**

**ASSOCIATE DATA ENGINEER**

**INTELLINEXUS JUN 2023 - PRESENT**

**Key Responsibilities**

* Leading in migrating data across diverse infrastructures, ensuring minimal downtime and data integrity while optimizing performance for modern platforms like Snowflake, Databricks, and cloud-based solutions.
* Collaborate with data analysts and data scientists to align data structures with business needs, ensuring accessibility, accuracy, completeness, and efficiency for advanced analytics and reporting.
* Liaise with technical teams and business stakeholders, to solve complex data processes and maintain transparency throughout migration projects.
* Designs and refining data pipelines to enhance performance, enabling scalable and efficient data workflows that support business growth and analytical needs.
* Implemented best practices ensuring that migrated data remains complete, accurate, reliable, and aligned with client needs.
* Attended Explore AI Academy learnership to acquire Data Engineering training and practical experience as sponsored by Intellinexus;
* Attending instructor-leading training courses and conducting pre and post training research
* Complete module assessments and group projects to demonstrate understanding
* Conclude learnership with a four-month, client facing integrated project serving as final assessment

**Key achievements:**

**Consulted with Unilever Group and achieved the following:**

* Lead the Unilever group data migration from SQL Server to their Databricks environment with data in csv files stored in their Azure Blob storage.
* Avoided downtime during testing phase by working in production, maintained data integrity throughout and post migration process through continuous integration testing, ensuring data governance.
* Employed software’s such as Jira and Microsoft teams to effectively collaborate with data analyst, data analytics manager, and financial manager to strategize, implement, testing, and provide post migration support.
* Redesigned the SQL code functionalities by employing manual and AI tools to translate code to PySpark, making it Databricks environment adaptable.
* Successfully implemented the migration to Databricks with reports being produced at over half the time the legacy system (SQL Server tables) was able achieve. By so do, we improved the business’s experience in accessing the necessary financial data to make real-time decisions.
* Delivered a presentation of end-product to client and completed the official hand with documentation over two weeks before official end date.

**Intellinexus Extraction, Transform, Load (ETL):**

* Collaborated with senior operations manager, data scientists and other data engineers to develop an in-house data migration demo for business development purposes, (i.e. demonstration during client pitches).
* Reviewed and refined the data migration demo design to ensure customization to adapt to different client business differentiators (data types and sizes, database legacy systems, and cloud-based data warehouses)

**Explore AI Web Scraping tool**

**Key achievements**

* Completed the Explore AI Academy Data Engineering course and received a certificate of completion and Sector Education and Training Authority accredited NQF level 5 underway
* Developed an ethically compliant data web scraping tool for the Sales department to analyze keynote speakers at leading technology event, namely Mobile World Congress Barcelona trade show.
* Delivered a team presentation to peers, educators and public to share the web scraping tool.

**DATA ANALYTICTS LEARNING ASSISTANT**

**2UINC/EDXONLINE SEPT 2023 – PRESENT**

**Key responsibilities**

* Assist international (UK, USA, and Canada) learners with coding debugging, understand key concepts and complete assessment on various assessment.
* Grade homework assignments using rubrics and templates within 24-48 hours, offering constructive feedback.
* Support students throughout the boot camp program, assisting with technical and non-technical skills.

**Key achievements**

* Infused empathy, encouragement, and fun into the learning experience, adhering to a support model for curriculum-based technical questions.
* Provided clear, comprehensive feedback to guide students toward excellence, identify errors, and support their learning progression.
* Received an average of 4 out 5 in feedback from students

**MIS GRADUATE TRAINEE**

**TRANSNET FREIGHT RAIL, SOUTH AFRICA JUL 2017–JUN 2019**

**Key responsibilities**

* Extraction of raw data from server for compiling MIS reports using excel spreadsheets and graphs for decision making by the Customer Care department.
* Updated dashboards for various departments on a weekly basis that aid with performance monitoring.
* Creation of data-led insights for various Business Units to improve financial performance.
* Performing daily incident Report recording for Risk Management and Operations department.

**Key achievements**

* Contributed to the Customer Care Department to meet weekly targets based on predictive analysis created by aligning with various departments (operations, customer credit, resource management, etc).
* Built business operation understanding and created relationships within other departments.
* Collaborated with the operations manager to get tasks in back-log completed for overall operational performance.
* Delivered bi-annual presentations to HR manager and immediate manager to deliver milestones covered and received positive feedback.

**CASH ACCOUNTANT**

**CAPITEC BANK, SOUTH AFRICA MAY 2016 – JUN 2017**

**Key responsibilities**

* Compared system computations and cash counted records by cash in transit forms/receipt to investigate Branch discrepancies.
* Detection of cash discrepancies on third part and client accounts to enable fraud prevention and automated reconciliation statements through internal controls systems.
* Liaised with branch managers and cash-in transit facility managers to recover surplus made and correct incorrect transactions made by client, upon receipt of client consent.

**Key achievements**

* Maintained Stakeholder compliance and satisfaction on a weekly basis, while amending any financial discrepancies identified.

**EDUCATION**

* PGDip, Information Communication Technology, Cape Peninsula University of Technology **PRESENT**
* B. Tech, Financial Information Systems, Cape Peninsula University of Technology **DEC 2015**
* National Diploma, Financial Information Systems, Cape Peninsula University of Technology **DEC 2014**
* Matillion DPC **AUG 2024**
* Snowflake Foundational **NOV 2025**

**VOLUNTEERING**

**DR MANI’S MEDICAL CENTRE SEPT 2022 – NOV 2022**

**Key Responsibilities**

* Data entry of patient files into medical systems, updating necessary information and validating patient
* Create daily booking on medical system to assist doctors understanding their schedule and patient history before

consultation

**Key Achievements**

* Positively contributed to a medical practice understanding their customers, billing and medical aid claims, weekly schedule better through
* Build relationships between patients and medical staff for overall patient satisfaction

**RELEVANT TRAINING**

* Data Science & Artificial Intelligence (Tech4dev)
* Data Analytics Program (Data Techcon)
* Data Engineering (Explore AI)

**Projects :**

* [Web scraping tool](https://github.com/Unathimtwa/Web-Scraping-) for the Sales department
* Built a dashboard that determines the impact of COVID-19 on education in Africa *-* [Women Techstars mini project –Edu App](https://github.com/Women-Techsters-Fellowship-2021/Tand-Edu-App-Project.git).*.*
* Created Human Resources visual that delivers insight into personnel behavior *-* [Human resources Dashboard](https://github.com/Unathimtwa/Human-Resource-Analysis.git)
* [Github page](https://github.com/Unathimtwa)