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EDUCATION

MANCOSA

Postgraduate Diploma Information Technology Management

01/2025 - Present

- Information Security, IT Law, Artificial Intelligence, Advanced Project Management, E-business, Strategic Management.

MANCOSA

Advanced Diploma Business Analysis

01/2024 - 12/2024

- Key Modules: Business Case Formulation, Process Modelling and Analysis, Effective Business Requirements.

ExploreAI Academy

Data Engineering

01/2024 - 12/2024

- Key Modules: Big Data Processing, Database Management, Cloud Computing and Automation Scripting, ETL/ELT Development, Python, SQL.

University of Johannesburg

National Diploma Operations Management

2013 - 2015

- Business Management, Quantitative Techniques, System Analysis and Design, Quality Assurance, Operations Management

SHORT COURSES

Advanced Microsoft Excel

Microsoft Project 2019

Project Management Fundamentals: APM-PFQ, PRINCE2 & AgilePM Overview

Business Intelligence Analyst Course

COBIT Framework - Foundations of IT Governance

Microsoft Azure Fundamentals

SQL - MySQL for Data Analytics and Business Intelligence

Microsoft PowerBI Desktop for Business Intelligence

The Project Management Course

Google Cybersecurity

NONTOBEKO DUBE

DATA ENGINEER

SUMMARY

Data Engineering professional with a strong foundation in software engineering, business analysis, and IT project management. Experienced in building scalable ETL pipelines, automating data ingestion, and designing relational databases using SQL and Python. Proficient in tools such as Power BI, Spark, Airflow, Docker, and cloud platforms like AWS and Azure. Completed a rigorous Software Engineering Learnership with exposure to software testing, documentation, project lifecycles, and systems design—strengthening my end-to-end understanding of data-driven development. Skilled in data modeling, big data processing, and leveraging information systems to support business intelligence. Adept at collaborating with cross-functional teams to deliver efficient, reliable, and impactful data solutions.

EXPERIENCE

Mindworx

01/2025 - Present

Software Engineer Intern

- Software Testing:** Gained hands-on experience in manual and automated testing techniques, including writing test cases, identifying bugs, and ensuring software quality.
- Document Design:** Learned to produce and maintain technical documentation such as requirements specifications, system design documents, and user manuals aligned with software development best practices.
- Project Management:** Acquired foundational knowledge of software project lifecycles, agile methodologies, sprint planning, and task tracking tools.
- Python Programming:** Developed and debugged Python applications, learning core programming principles such as loops, data structures, OOP (object-oriented programming), and file handling.
- Database Design & Manipulation:** Designed and implemented relational database schemas using SQL. Learned to perform CRUD operations, normalize data, and optimize queries.
- Information Systems:** Gained an understanding of how information systems support organizational processes, decision-making, and IT infrastructure.
- Mathematics for Software Engineering:** Applied mathematical principles relevant to software development, including logic, discrete math, and basic algorithm analysis.

Sand Technologies

09/2024 - 11/2024

Data Engineer Intern (Remote)

- Built scalable ETL pipelines using Spark, Airflow, and Docker, improving processing efficiency.
- Automated data ingestion into Hadoop, enabling seamless integration for data marts.
- Supported cloud migrations (AWS) and optimized cost-efficiency for hybrid data systems.

Department of Defence

01/2017 - 12/2023

Project Manager

- Delivered IT projects compliant with public sector SLAs, including cybersecurity upgrades (CISCO/HPE) and ITSM tool deployments.
- Managed vendor contracts, procurement, and documentation standards for audits and reporting.
- Documented data governance policies.

SKILLS

Technical

SAP, PowerBI, Pivot Tables, AWS, Azure, Spark, Hadoop, Airflow, Docker, Scrum, Agile, Waterfall, RAID, RACI, Jira, Confluence, UAT, ETL/ELT, SQL, Python, Big Data Processing, Database Management, GitHub

Interpersonal

Communication, Adaptability, Change Management, Reporting, SLA adherence, Documentation, Risk Mitigation, Research, Implementation and Optimization of Data Solutions, Collaboration, Delegation, Risk Management, Leadership, Technical Problem Solving, Adaptability and Problem solving skills, Requirements gathering.

REFERENCES

Available upon request

SKILLS

Project Documentation- Skilled in preparing and ensuring the sign-off to the:

Project Charter, Request for Quote, Status Report, Pricing Schedule, Payment Schedule, Service Level Agreement, Low level Design, Architecture Scope Design, Project Plan, RAID(Risk, Assumptions, Issues, Dependencies), RACI Matrix, PPT, Vulnerability Report, Resource Plan, Visualised Report, Change Request, Escalation Matrix, High-Level Design document, Low-Level Design Document, Project handover document.

CLOSED PROJECTS HIGHLIGHTS

Data Migration - Cloud-Based/Hybrid Pipeline

- Managed a project about migration of enterprise data to cloud and hybrid systems, ensuring secure transfer and minimal disruption to business operation.

Customer Portal Redesign (Agile/Scrum)

- Modeled AS-IS and TO-BE workflows using BPMN, eliminating 5 redundant steps in the onboarding process.

ETL Automation & Workflow Optimization

- Implemented Airflow Dags to schedule and monitor data pipelines, reducing processing time.
- Migrated legacy systems to AWS Redshift, improving scalability.

Inventory Management System Integration

- Documented integration requirements for migrating legacy data to a cloud-based system, reducing manual entry errors by 40%.
- Created wireframes and user stories to align vendor APIs with business logic, enabling seamless real-time stock tracking.

Enterprise CRM Upgrade (Business Requirements Focus)

- Documented functional and non-functional requirements in a Business Requirements Document.
- Mapped requirements to user stories in Jira, ensuring traceability throughout the Agile lifecycle.

BI Dashboard Development (Power BI)

- Designed interactive dashboards for business stakeholders, improving decision-making speed.
- Optimized SQL queries and data models to enhance report performance.

Cybersecurity

- Managed a project that collaborated with CISCO and HPE to upgrade network security, VMWare Licenses as well as vCenter provincially.