

OWEN VAN WYK

DATA ENGINEER

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- 📍 Cape Town, South Africa
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EDUCATION

Software Engineer, HyperionDev

- 2023 – 2023 | Cape Town, SA
- Object-Oriented Programming
 - Data Structures and Algorithmic thinking
 - CI/CD, Database structuring and schematic modeling
 - Defensive Programming and Debugging
 - Natural Language Processing
 - Version Control/Deployment
 - Testing & QA,
 - SDLC, API Development and Intergration

Cybersecurity Specialist, Eduvos

- 2024 – 2025 | Cape Town, SA
- Penetration Testing,
 - Risk Mitigation,
 - Network Configuration, Security Protocols
 - Troubleshooting,
 - System Hardening, Security Architecture
 - CompTIA Network+
 - CompTIA Security+
 - CySA+,
 - CompTIA A+

CS50 for Lawyers, Havard Online

- 2025 | Cape Town, SA
- Digital Forensics,
 - Secure Network Architecture,
 - Cloud Security,
 - Data Encryption and Security Best Practices

Data Engineer / ML Engineer, CodeAcademy

- 01/2024 – 11/2025 | Cape Town, SA
- RAG and DAG Operations,
 - Python scripting,
 - Matplotlib and Pandas, SQL,
 - Apache Airflow, Tensorflow/PyTorch, PySpark, PowerBI,
 - Stream Processing, Datawarehousing, AWS/Azure, ETL Operations

Languages

- English
- Afrikaans

EXPERIENCE

Data Engineer, Spinnaker Software

- 02/2025 – 05/2025 | Cape Town, SA
- Automated 3+ workflows using CI/CD pipelines and Python scripts, reducing manual processing time by 0%.
 - Optimized database schemas for 15+ client databases, improving query performance by 25%.
 - Developed dashboards that improved client data visualization and decision-making.

IT Support Specialist (Volunteer), CPOA

- 01/2022 – 12/2022 | Cape Town, SA
- Diagnosed and resolved 50+ hardware/software issues for the home.
 - Maintained 100% customer satisfaction through effective communication and technical solutions.
 - Managed inventory systems with 99% accuracy in stock level reporting.

Projects

M4N_DISTRO

A Rust system designed for energy efficiency based on the number of workers focusing on disk IO Operations. It's focused more on the security side of things, aimed at a national level of surveillance

Portfolio Web Application

SOURCE_REPO
A portfolio piece on my experiences and competencies as a Software Engineer and Cybersecurity Specialist

Certificates

- Oracle Cloud Infrastructure
- CompTIA Sec+
- Security Engineer
- AI/ML Engineer
- Data Engineer

Skills

Data Pipelines & Workflow: Apache Airflow (DAG Operations), ETL/ELT Operations, Stream Processing, CI/CD.

Big Data & Warehousing: PySpark, Datawarehousing, Cloud Data Services (AWS/Azure)

Databases & Querying: SQL (Advanced Querying, Schematic Modeling), Relational Database Design.

Core NLP/ML: Natural Language Processing (NLP), RAG (Retrieval-Augmented Generation), Machine Learning Algorithms.

Business Intelligence (BI): PowerBI (Data Visualization and Dashboard Development).

Python Libraries: Pandas, NumPy, Matplotlib/Seaborn.

Technical Communication

Problem-Solving & Analytical Thinking

Team Collaboration