

# 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 Integration

### 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, Harvard 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