OWEN VAN WYK

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EDUCATION

Software Engineer, HyperionDev
2023 – 2023 | Cape Town, SA
- Object-Oriented Programming
- Data Structures and Algorithmic Thinking
- 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+ , Security+ , CySA+

CS50 for Lawyers, Havard Online
2025
- Digital Forensics,
- Secure Network Architecture,
- Cloud Security,
- Data Encryption and Security Best Practices

Computer Science, Data Engineer & AI/ML Engineer, CodeAcademy
01/2024 – 11/2025
- Databases
- Discrete Math
- Computer Architecture
- RAG and DAG Operations,
- Python scripting,
- Matplotlib and Pandas, SQL,
- Apache Airflow, Tensorflow/PyTorch, PySpark, PowerBI,
- Stream Processing, Datawarehousing, ETL Operations

Diploma in Mathematics, Alison
01/2025
- Linear Algebra
- Algebra & Equations
- Statistics and Probability Theory
- Functions & Graphs
- Geometry
- Calculus

Languages

- English
- Afrikaans

Certificates

- Oracle Cloud Infrastructure 🔗
- CompTIA Sec+ 🔗
- Security Engineer 🔗
- AI/ML Engineer 🔗
- Data Engineer 🔗
- Computer Science 🔗
- Mathematics

EXPERIENCE

Data Engineer, Spinnaker Software
02/2025 – 05/2025 | Cape Town, SA
- Automated 3+ workflows using CI/CD pipelines and SQL scripts, reducing manual processing time by 50%.
- 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.

Freelance Fullstack-Web-Dev, Saood Williams
01/2026
- Database Architecture & Migration, Connection pooling and Query Engine reducing cold starts, pivoting from socket exhaustion
- Security & Vulnerability Management, remediating hard-coded insecure npm packages
- Content Infrastructure & Performance, calling upon different APIs and streaming via webhooks for user error

Projects

AI/ML Mathematics 🔗
2025 – Present
Experimenting with different use cases of data engineering, machine learning, and diffusion models to create workflows and case statements/deductions to further enhance the model's core algorithm (currently fraud detection, NLP analysis for phishing, security monitoring of APIs, inference, and feature application)

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

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): Excel & PowerBI (Data Visualization and Dashboard Development).

Technical Communication

Problem-Solving & Analytical Thinking

Team Collaboration