

Simphiwe Mathosa

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in Simphiwe-Mathosa

🌐 SimphiweMathosa

Profile

- Final-year Bachelor of Information Technology student at Belgium Campus iTversity, specializing in Software Development. Passionate about Data Analytics and Data Science with hands-on experience in Python, Power BI, and full-stack development. Strong problem-solving and collaboration skills, with a proven track record in academic and real-world projects.

Objective

- Seeking a 2025/2026 internship or entry-level role in Data Analytics, Business Analytics and Software Development.

Education

Belgium Campus iTversity

Bachelor of Information Technology (BIT)

Akasia, Pretoria North

Feb 2022 – Nov 2025

- Specialized in software development, data analytics, business analytics systems integration, data protection, and UX design.
- **Coursework:** Data Analytics, Database Management Systems, Business Intelligence, Systems Analysis, Data Structures, Software Engineering, Artificial Intelligence, Project Management, Software Development

Certifications

100 Days of Code – The Complete Python Pro Bootcamp

Udemy

Online (Pretoria)

Complete

- Python, Flask, APIs, SQL, Pandas, and 100+ real-world projects.

Microsoft Certified: Power BI Data Analyst Associate

Microsoft

Online (Pretoria)

Complete

- Proficiency in data prep, modeling, DAX, and report creation.

Oracle Data Platform Foundations Associate (2025)

Oracle University

Online (Pretoria)

Complete

- Built cloud data management skills across Autonomous DB, MySQL, NoSQL, and Oracle APEX.

Projects

Business Intelligence Model for Customer Eligibility Prediction

[github.com/](#) 

- Designed and trained a classification model to determine the eligibility of the customer for the Internet Service Contract.
- Achieved **94% prediction accuracy** through advanced data pre-processing, feature engineering, and model tuning.

Aviation Safety Enhancement for Single Prop Aircraft (ASESPA)

[github.com/](#) 

- Developed an **Aviation Safety Management System** with modules for risk reporting, assessments, and certification tracking .
- Created and managed the relational database using **Microsoft SQL Server**.

ApexCare Solutions – Equipment Maintenance App

[github.com/](#) 

- Developed mobile and web apps for equipment maintenance tracking.
- Integrated **JWT authentication**, predictive maintenance analytics, and real-time updates

Technical Skills

Languages: Python, R, Java, JavaScript, TypeScript, C#, SQL, HTML/CSS, Bash

Frameworks and Libraries: React, Angular, Express.js, ASP.NET Core, Flask, Django, .NET Entity Framework Core, Electron, Flutter, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Plotly, TensorFlow (introductory), NUnit

Business Intelligence and Analytics Tools: Microsoft Power BI, Tableau (beginner), Excel (Power Query, Power Pivot), SQL Server Reporting Services (SSRS), Jupyter Notebook, RStudio

Technologies: Git & GitHub, Visual Studio, VS Code, Android Studio, Swagger, Azure (fundamentals), Oracle Cloud (Autonomous DB, APEX), Google Colab, SQL Server Management Studio (SSMS), PostgreSQL, MySQL, Firebase

Concepts: Data Modeling, Data Warehousing, ETL Pipelines, Data Visualization, API Integration, Object-Oriented Programming (OOP), MVC Architecture, Software Development Life Cycle (SDLC), Agile & Scrum, DevOps (basics), Test-Driven Development (TDD), RESTful APIs, UX/UI Design, Software Architecture Patterns, CI/CD Fundamentals

Soft Skills

Soft Skills: Analytical and Logical Thinking, Excellent Communication, Problem-solving, Time-management, Team work and Collaboration, Leadership, Creativity and Innovation, Adaptability, Attention to detail, Willingness to learn, Initiative and Self-Motivation

Volunteer & Tutoring Experience

Book Village NPC – Volunteer Tutor

Nov 2024 – Present

- Assisted with reading and language development programs for children.

IT Tutor – Belgium Campus

2022 – 2024

- Tutored peers in Data Architecture, Business Intelligence, and System Analysis.