

MTHOBISI INNOCENT ZUNGU

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SUMMARY

Driven by curiosity and a relentless pursuit of excellence, I am a highly analytical and forward-thinking BSc graduate specializing in Physics and Mathematics, with strong problem-solving abilities and a passion for using technology to solve real-world challenges.

I am also a self-taught Python Developer, skilled in building data-driven solutions, automating workflows, and developing functional applications. With experience in backend, frontend, API integration, dashboards, and data processing, I bring a unique blend of scientific precision, programming ability, and creative innovation.

I am committed to continuous learning, pushing boundaries, and delivering measurable impact. I aim to contribute meaningfully to forward-thinking organizations where growth, innovation, and technology meet.

EDUCATION

- **Occupational Certificate: Software Engineer (NQF Level 6)** *Mindworx Academy – In Progress (2025)*
- **Bachelor of Science (Mathematics & Physical Sciences)** *Sefako Makgatho Health Sciences University – 2023*
- **National Senior Certificate** *Mlokothwa High School – 2016*

Short Courses Completed

- Cisco: Cybersecurity, Computer Hardware, Networking, Engaging Stakeholders, IoT & Digital Transformation
- FreeCodeCamp: College Algebra with Python

EXPERIENCE

Junior Software Engineer / Trainee Developer *Mindworx Academy & Consulting – Internal Pods* 31/07/2025 – 31/03/2026

- Built and maintained system components for an Automated Attendance Register designed to pull real-time attendance data from Microsoft Teams using Microsoft Graph API
- Developed both the backend (Python pipelines, data processing, automation) and frontend (JavaScript, HTML, CSS — no framework) of the system
- Worked with a centralized HeidiSQL database, designing tables, handling CRUD operations, and integrating pipelines to feed structured data
- Integrated APIs to extract and deliver required system information
- Generated progress reports outlining improvements, system updates, and future developments

Interim Residence Manager *Sefako Makgatho Health Sciences University*

01/08/2022 – 30/04/2023

- Maintained order, cooperation, and adherence to residence policies
- Identified opportunities to enhance the residence environment and student experience
- Recommended and implemented methods to improve safety, operations, compliance, and service delivery
- Attended training sessions, meetings, and educational programs for continuous improvement
- Compiled detailed reports on residence developments, academic performance, and campus health campaigns

PERSONAL PROJECTS

1. Downloads Folder File Organiser (Python)

- A custom Python automation script that scans a cluttered Downloads folder and automatically sorts files into structured categories such as Documents, Videos, Music, Applications, Archives, and Images

2. CSV Data Analysis & Visualisation Project

- Performed full data lifecycle tasks using Python in Google Colab:
 - Imported CSV datasets
 - Data cleaning, wrangling & preprocessing
 - Exploratory data analysis
 - Visualization
- *Libraries used: pandas, numpy, matplotlib, seaborn*

3. Interactive Dashboards With Taipy (Python)

- Built interactive, presentation-ready dashboards by processing CSV files with Python and generating dynamic UI components using the Taipy library

4. Personal Portfolio Website

- Developing a responsive portfolio website using React + TailwindCSS, showcasing projects, skills, and achievements

TECHNICAL SKILLS

• Programming & Development

Python (core programming, automation, data analysis, OOP), JavaScript, React (beginner), HTML5 & CSS3, TailwindCSS, API Integration (Microsoft Graph API), Version Control (Git & GitHub)

• Data & Databases

SQL (HeidiSQL, database design & management), Data Cleaning & Processing, Data Visualization, Dashboards with Taipy, Working with CSV, JSON & structured datasets

• Mathematics & Scientific Skills

Advanced Calculus, Linear Algebra, Differential Equations, Physics principles (mechanics, electromagnetism, thermodynamics), Research and analytical reasoning

- **Tools & Platforms**

Google Colab, VS Code, Microsoft Teams Graph API, Pycharm

SOFT SKILLS

- Strong communication (written & verbal), Active listening, Presentation skills
- Teamwork & Collaboration, Conflict resolution, Leadership & Initiative
- Time Management, Ability to take charge of projects, Professionalism & reliability
- Networking and relationship-building, Problem-solving & critical thinking

INTERESTS

Chess, Football, Foreign Market Exchange Analysis, Reading, Hiking, Travelling, Cooking & Baking

REFERENCES

- **Refiloe Lechokgohla**

Project Manager – Mindworx Academy
Email: refiloel@mindowrx.co.za
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- **Zakhele Magagula**

Private Tutor – Inimitable Academy
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- **Tebogo Mphakathi**

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