

# Nkosingiphile Xaba

Cell: 060 304 7039

email: [nkosiman860@gmail.com](mailto:nkosiman860@gmail.com)

LinkedIn: [www.linkedin.com/in/nkosingiphile-xaba-39b7a91b2](https://www.linkedin.com/in/nkosingiphile-xaba-39b7a91b2)

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## PROFILE

Recent University of Cape Town graduate with a Bachelor of Science in Applied Statistics. Passionate about leveraging data science, artificial intelligence, and technology to solve real-world problems. Skilled in Python, R, SQL, and data analysis, with a strong foundation in mathematics and statistics. Proven ability to lead, adapt, and communicate effectively in team environments.

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## EDUCATION

### University of Cape Town

#### BSc in Applied Statistics(2023–2024)

- Key Courses: Applied Statistics, Data Analysis, Pure Mathematics, Information Systems
- Relevant Skills: Data visualization, statistical modelling, machine learning, and programming (Python, R, Java, SQL).

### University of Cape Town

#### BSc in Computer Science and Business Computing(2022)

- Focused on programming, data structures, and business applications of technology.

### University of Cape Town

#### BSc in Astrophysics and Computer Science(2021)

- Developed strong analytical and problem-solving skills through coursework in physics and programming.

### Windsor Secondary School, KZN

#### Grade 12 National Senior Certificate(2020)

- Achieved distinctions in Mathematics (89%), Physical Science (89%), IsiZulu First Additional Language (95%), and Life Orientation (90%).
  - Leadership: Deputy Head Boy (2020).
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## Work Experience

### Elixirr Digital AI Academy, Cape Town, South Africa

#### Internship

[24/03/2025] – [25/04/2025]

- Completed an intensive AI training program, gaining expertise in AWS, Python, LangChain, and Streamlit.
- Developed skills in Large Language Models (LLMs) and prompt engineering for AI-driven solutions.
- Collaborated on projects to build and deploy scalable AI models using cloud-based tools.

### **Amphitheatre Backpackers Lodge**

#### **Maintenance Assistant**(December 2019 – January 2020)

- Performed general maintenance tasks, including landscaping, waste disposal, and plumbing repairs.
  - Demonstrated reliability, attention to detail, and the ability to work independently.
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## **VOLUNTEER EXPERIENCE**

#### **Rochester House Tutor (2023)**

- Tutored students in Mathematics and Statistics, improving their understanding and academic performance.

#### **Church Accountant Assistant (2020)**

- Managed and counted donation funds weekly, ensuring accuracy and transparency.

#### **Peer Tutor**

- Assisted first-year students with Statistics, Mathematics, and Computer Science coursework.
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## **AWARDS & ACHIEVEMENTS**

- **Mathematics Top Achiever (2020)**: Recognized as the top mathematics student in my school.
  - **Certificate of Participation**: Mathematics Tertiary Olympiads (2021).
  - **Eskom Expo for Young Scientists (2019)**: Participated in a national science competition.
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## **ADDITIONAL TRAINING**

#### **DIRISA Datathon Student Challenge**(December 2023)

- Analyzed youth unemployment data using Python libraries (Pandas, NumPy, Seaborn).
- Developed and deployed a machine learning model to predict youth unemployment trends over the next decade.
- Collaborated with a team to create data visualizations and present findings to sponsors (Momentum, CSIR, Spectra, Metropolitan Foundation).

#### **LABHACKATHON SOUTH AFRICA**(December 2022)

- Learned to design and innovate using Open Hardware to solve real-world problems.
  - Program hosted by CSIR and Sanbio.
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## **SKILLS**

### **Technical Skills:**

- Programming: Python (Proficient), R (Proficient), Java (Proficient), SQL (Proficient).
- Data Science Libraries: Pandas, NumPy, Seaborn, Scikit-learn.
- Tools: Data visualization, statistical modeling, machine learning.

### **Soft Skills:**

- Critical Thinking | Problem Solving | Leadership | Adaptability | Strong Communication
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## **INTERESTS**

- **Fitness:** Regularly attend the gym and enjoy running.
  - **Reading:** Avid reader of books on technology, data science, and personal development.
  - **Entertainment:** Enjoy watching series and exploring new technologies.
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## **REFERENCES**

**Available upon request**

