KHETHIWE CELE

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Location: Johannesburg, 2092
LinkedIn: linkedin.com/in/khethiwe-cele
GitHub: github.com/Ndalwenhle
FreeCodeCamp: freecodecamp.org/Khethiwe_Cele

Programming: Python, Fortran, MATLAB
Scientific Computing: LaTeX, Rietveld Refinement, Simulations
Data Analysis: Python (Matplotlib, Pandas), OriginLab
Web Development: HTML, CSS (Responsive Design)
Software: Microsoft Office, Google Colab, FreeCodeCamp

Professional Summary

Motivated Master's student in Physics with a background in applied mathematics, computational physics, and data analysis. Experienced in tutoring, laboratory demonstrations, and research on material science, with expertise in Python, Fortran, and LaTeX. Passionate about technology, simulations, and web development.

Education and Certifications

MSc in Physics
University of Johannesburg, Expected 2024

Honours in Physics
University of KwaZulu-Natal, 2023

BSc in Applied Mathematics and Physics
University of KwaZulu-Natal, 2021

Certifications
- ALX Founder Academy (2024)
- ALX AI Career Essentials (AiCE) (2024)
- Responsive Web Design – freeCodeCamp (2024)

Experience

Physics Tutor and Practical Demonstrator (2021–2023)
University of KwaZulu-Natal

- Led first-year physics tutorials, simplifying complex concepts.

- Assisted in laboratory sessions, ensuring students understood experiments.

Master's Researcher (2024–Present)
University of Johannesburg

- Research on brownmillerite compounds for spintronic applications.

- XRD and SEM techniques for material characterization.

- Applied Python for data visualization and analysis.