

LUTHANDO CANDLOVU

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Location: Bizana, Eastern Cape, South Africa

Portfolio: <https://luthandocandlovu.github.io/MY-PORTFOLIO/> | **GitHub:** <https://github.com/LuthandoCandlovu>

PROFESSIONAL SUMMARY

BSc Computer Science graduate from the University of Fort Hare with strong programming, analytical, and problem-solving skills. Passionate about software development, artificial intelligence and Software Engineering. Experienced in academic mentoring, collaborative research, and applying machine learning techniques to real-world challenges. I have also attended astronomy focused training programs, gaining exposure to radio astronomy computing and Big Data concepts in scientific research environments. Motivated to contribute to innovative, data-driven, and impact-oriented technology projects.

EDUCATION

University of Fort Hare

BSc graduate Computer Science (2025)

Relevant Coursework: Artificial Intelligence, Machine Learning, Data Structures & Algorithms, Cybersecurity, Software Engineering

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C++, SQL, JavaScript, HTML, CSS, Bash/Shell
- **Frameworks & Tools:** Git, VS Code, Jupyter Notebook, React Native
- **Machine Learning:** Isolation Forest, Autoencoders, Data Preprocessing, Regression Models
- **Core Concepts:** Data Structures & Algorithms, Cybersecurity Principles, Software Engineering
- **Soft Skills:** Technical Communication, Team Collaboration, Academic Mentoring, Analytical Thinking

CERTIFICATIONS & TRAINING

- Introduction to Cybersecurity Certification
- Hackathon Participation Certificate
- Inkanyezi IT Audit & Cyber Security Academy Training

KEY PROJECTS

- **AI-Based Zero-Day Attack Detection (Honours Project)**
 - Developed an anomaly-based intrusion detection system using Isolation Forest and Autoencoders.
- **Phishing Detection System**
 - Built a machine learning classifier to detect phishing URLs and emails.
 - Implemented feature engineering and data preprocessing in Python.
- **Stock Price Prediction System**
 - Developed predictive models using historical stock data.
 - Applied regression and forecasting techniques using pandas and Python.
- **Ikhaya Mobile App (React Native)**
 - Designed an intelligent student accommodation assistant.
 - Focused on user experience, AI-driven interactions, and community engagement.

PROFESSIONAL EXPERIENCE

- **Volunteer – Fost Discovery (Science & Agriculture Department, 2025)** - Supported STEM outreach and community science engagement initiatives.
 - Promoted technology and innovation awareness among students.
- **Peer Mentor – University of Fort Hare (2023–2024)**
 - Guided Computer Science students in algorithms and computational thinking. - Strengthened learners' problem-solving and analytical reasoning skills.

RESEARCH WORK (IN PROGRESS)

Enhancing Problem-Solving Skills in Computer Science Through Collaborative Learning - Co-authoring an academic manuscript evaluating the impact of peer mentoring on learning outcomes.

LANGUAGES

- **English** – Fluent | **IsiXhosa** – Fluent | **IsiZulu** – Intermediate

REFERENCES

- Mr. Lazola Mcedani – University of Fort Hare – 081 323 279 – LAMcedani@ufh.ac.za
Prof. Phumezo Kwinana – Fosst Discovery Center – 061 564 0489 - PKwinana@ufh.ac.za