PHAKAMANI SIBEKO

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Driving License: Code C1

Summary

Honours student in Computer Science at the University of Zululand, specializing in cybersecurity with a focus on intrusion detection systems using machine learning and deep learning in IoT-based threat detection. A driven problem solver with passion for cybersecurity, intelligent systems, software development, data visualization, and secure coding practices.

Experience

Computer Literacy Tutor   **March 2025 - Present**
University of Zululand   Empangeni, KZN
- Delivering and engaging tutorials on basic computer concepts, Internet, MS Office 356 & Windows 11.
- Supporting students in developing digital literacy, online safety, and research skills.
- Managing classroom environments effectively to foster inclusive learning.
- Utilizing eLearning platforms to supplement in-person instruction.

Skills

- SQL/ database management, JSON
- Front-End & Back-end development
- Problem-solving abilities
- Team collaboration
- Adaptability and flexibility

- Java, Python and Delphi development
- LibreOffice & Microsoft 365
- Linux OS & Windows OS
- JavaScript, HTML, & CSS

Education

BSc Applied Mathematics & Computer Science   **Completed, 2024**
University of Zululand   Empangeni, KZN
BSc Hons Computer Science   **In Progress, 2025**
University of Zululand   Empangeni, KZN

Certification

- Cyber Threat Management, Cisco Networking Academy, December 2023
- Ethical Hacker, Cisco Networking Academy, May 2024
- Endpoint Security, Cisco Networking Academy, December 2024

Projects

Mental Health Chatbot with Interactive Dashboard

Flask | OpenAI GPT API | Chart.js

- Developed an AI-powered chatbot to provide mental health support and real-time trend analysis using Flask, OpenAI's GPT API, and Chart.js.
- Implemented data visualization dashboards to detect mental health trends.

An Apple eStore

HTML5 | CSS3 | Django | SQLite

- Designed and developed a Django-based e-commerce platform with a session-based shopping cart, authentication system, and secure proof-of-payment upload for order validation.

Face & Gesture Biometric 2FA System

Python | OpenCV | TensorFlow | MediaPipe | Cryptography

- Developed a secure multi-factor authentication system combining facial recognition and gesture biometrics for enhanced access control.
- Designed the system to mitigate spoofing, replay, deepfake, and presentation attacks, ensuring strong resilience against biometric fraud.

Social Networks, Websites

linkedin.com/in/pwm-sibeko-t1000 | github.com/idungamanzi | credly.com/users/mlulekit1000