
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

Software Developer

Prontco (Pty) Ltd

Feb 2022 to Dec 2024

Remotely, South Africa

- Improved software efficiency by troubleshooting and resolving coding issues.
- Contributed to a positive team environment through effective communication, problem-solving, and collaboration skills.
- Enhanced security measures and implemented data management solutions.

Computer Literacy Tutor

University of Zululand

March 2025 - Present

Empangeni, KZN

- Delivering and engaging tutorials on basic computer concepts, Internet, MS Office 365 & 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.
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Skills

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| <ul style="list-style-type: none">• SQL/ database management, JSON• Front-End & Back-end development• Problem-solving abilities• Team collaboration• Adaptability and flexibility | <ul style="list-style-type: none">• Java, Python and Delphi development• LibreOffice & Microsoft 365• Linux OS & Windows OS• JavaScript, HTML, & CSS |
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Education

BSc Applied Mathematics & Computer Science

University of Zululand

Completed, 2024

Empangeni, KZN

BSc Hons Computer Science

University of Zululand

In Progress, 2025

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](https://www.linkedin.com/in/pwm-sibeko-t1000) | github.com/idungamanzi | credly.com/users/mlulekit1000