Khahliso Kgodumo

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MY PROFILE

My academic experiences have developed my analytical and technical skills through coursework in programming, web app development, and memory management, along with hands-on practice in Wireshark, Docker and Python scripting. I'm eager to apply my experiences towards real-world threat detection.

EDUCATION

BSc Computer Science | University of Pretoria (2023 – Present)

- Interest: Cybersecurity & Network Defence
- Relevant Coursework: Netcentric Systems, Operating Systems, Computer Organisation & Architecture

PROJECT EXPERIENCE

ARP Spoofing Detector | Python, Scapy

- Developed a tool that detects ARP cache poisoning attacks from a PCAP file
- Designed to work as a PCAP analyser for forensic investigations
- Implemented packet analysis algorithms to identify IP-MAC conflicts

Docker-Based Network Simulation Lab | Docker, NGINX, MYSQL

- Designed and deployed an isolated virtual network using Docker containers to simulate real-world services (NGINX, MySQL)
- Verified inter-container communication using Docker's built-in features

Capture The Flag (CTF) Challenges | OverTheWire, RootMe

- Extracted hidden credentials in an authenticated FTP file exchange using Wireshark
- Extracted credentials from an HTTP Authorization header by decoding Base64.
- Progressed through multiple levels of OverTheWire Bandit, learnig file system analysis

EXTRACURRICULAR

- Junior Facilitator, CSA&G

- Executive Music Show Director, TuksFM