Benhur Tekeste

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Summary — Passionate cybersecurity professional with expertise in penetration testing, machine learning, cloud computing, IoT security, and wireless networks. Adept at analyzing and resolving complex challenges, with a record of designing innovative solutions and achieving measurable results. Strong communicator with a strategic mindset and hands-on technical skills.

Skills

AI Machine Learning, Generative AI
Security Penetration Testing, Threat Modelling
Languages Python, Bash, Powershell, C
OS Linux Distributions, Windows
Forensics Malware, Firmware, Logs
IoT Systems Arduino, Raspberry PI

Experience

Khalifa Univesity **Feb 2024 – Present**
Research Assistant
- Conducted performance analysis of routing protocols (e.g., QoS-OLSR, Batman-adv)
- Developed custom scripts to automate emulation tests, reducing manual effort by 90% and enhancing efficiency
- Aligned emulator configurations with physical environment, achieving around 95% simulation accuracy
- Enhanced QoS-OLSR by integrating IPv6 functionality, achieving full compliance with IPv6 standards

EQTY.io **Oct 2023 – Nov 2023**
AI Intern
- Preprocessed and validated raw text data for model training
- Evaluated the ethical implications and performance of ClimateGPT

Khalifa University **Jun 2023 – Aug 2023**
Summer Trainee
- Converted a standard 3D printer into a functional bioprinter, enabling cost-effective research.
- Presented an extensive documentation

Education

Khalifa University **Jan 2019 – Dec 2023**
Bachelor of Science in Computer Engineering
CGPA - 3.86

Certifications
- INE - eLearn Junior Penetration Testern (June 2024)
- TCM Security - Practical Ethical Hacking (Jul 2024)
- Khalifa University Cyber Security Academy - Red Teaming and Penetration Testing (Aug 2023)
- Google - Google Cybersecurity Analyst Professional (June 2023)
- LinkedIn - Splunk for Security Analytics and Monitoring (Apr 2023)

Projects

IoT and Hardware Security Assessment of a TP-Link Router
- Analyzed the IoT threat landscape
- Identified surface-mounted chips
- Extracted firmware from ROM
- Reverse-engineered a library to acquire the decryption key
- Decrypted a DES-ciphered configuration file

Senior Design Project
- Developed computer vision-based waste segregation system
- Collected around 60,000 images
- Trained and assessed a plethora of pre-existing models such as ResNet50 and VGG16

Awards

- Secured 2nd place in Cyber Energy Drill during ADIPEC 2023
- Received Social Good Award during GITEX AI InnovateFest 2023
- Inducted to Golder Key International Honor Society 2022
- Placed 3rd in Khalifa University Programming Contest 2023
- Awarded Distinguished Peer Tutor in Fall 2023
- Currently ranked Top 1% among 3+ million users on TryHackMe