



# Benhur Tekeste

**Date of birth:** 04/06/1998 | **Nationality:** Eritrean | **Gender:** Male | **Phone number:** (+971) 543648338 (Mobile) | **Email address:**

[benhurtekeste2020@gmail.com](mailto:benhurtekeste2020@gmail.com) | **Website:** [benhurtekeste.github.io](https://benhurtekeste.github.io) | **LinkedIn:** [linkedin.com/in/benhur-tekeste-417668201/](https://linkedin.com/in/benhur-tekeste-417668201/) |

**Address:** Abu Dhabi, United Arab Emirates (Home)

## ABOUT ME

- Passionate cybersecurity professional with a strong background in penetration testing and malware analysis.
- Skilled in cybersecurity, machine learning, IoT systems, and wireless networks.
- Extensive experience in routing protocol development, SDN-based emulation environments, and IoT device security.
- Ranked among the top 0.1% on TryHackMe, continuously refining skills through real-world challenges and competitions.

## EDUCATION AND TRAINING

2019 – 2023 Abu Dhabi, United Arab Emirates  
**BACHELOR OF SCIENCE** Khalifa University

**Website** [ku.ac.ae](https://ku.ac.ae) | **Field of study** Computer Engineering | **Final grade** 3.86/4.0

## WORK EXPERIENCE

02/2024 – 01/2025 Abu Dhabi, United Arab Emirates  
**UNIVERSITY RESEARCH ASSISTANT** KHALIFA UNIVERSITY

- **Researched and developed a Machine Learning-based routing protocol, QoS-OLSR**, to optimize network performance.
- Performed quantitative performance analysis of routing protocols QoS-OLSR and Batman-adv, comparing latency and throughput.
- Integrated **QoS-OLSR** protocol with **TII-produced Comm Sleeve devices and Hardened OS**, significantly bolstering security.
- Aligned **Mininet-WiFi (SDN emulator)** configurations with the physical environment, **achieving 95% simulation accuracy**.
- Enhanced **QoS-OLSR** protocol by **integrating IPv6 functionality**, achieving full compliance with IPv6 standards.
- **Assisted and mentored** students in implementing an ML-based QoS-OLSR protocol for their capstone project.

03/10/2023 – 24/11/2023 Remote, United Arab Emirates  
**AI INTERN** EQTY.IO

- Prepared and preprocessed raw text data, ensuring accuracy and optimizing it for efficient Retrieval-Augmented Generation (RAG).
- Evaluated the ethical implications and performance of ClimateGPT.

10/06/2023 – 25/07/2023 Abu Dhabi, United Arab Emirates  
**SUMMER TRAINEE** KHALIFA UNIVERSITY

- Converted a standard 3D printer into a functional bioprinter, enabling cost-effective research.
- Presented extensive documentation.

## DIGITAL SKILLS

### Security

Penetration Testing (Web, Active Directory) | Threat Emulation | Incident Response

### AI

Machine Learning | Scikit-learn & TensorFlow - Basic | Large Language Models

### Operating Systems

Linux Distributions | Windows

### Languages

Python | Bash | Powershell | C

## Forensics

Malware Analysis | Firmware Analysis | Logs

## Embedded Systems

Raspberry PI | Arduino

## Cloud Computing

Amazon Web Services (AWS) | Alibaba Cloud

## 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 a decryption key.
- Decrypted DES-ciphered configuration files.

### Smart Trash Bin

- Built a computer vision-based waste segregation system.
- Collected around 60,000 images.
- Trained and assessed many pre-existing models, such as ResNet50 and VGG16.
- Developed an automated waste segregation system that included identifying and discarding waste items.

## HONOURS AND AWARDS

### 2nd place in Cyber Energy Drill during ADIPEC 2023 – UAE Cyber Security Council

### Social Good Award during GITEX AI InnovateFest 2023 – Alibaba Cloud

### Inducted into Golder Key International Honor Society – Golder Key International Honor Society

### 3rd place in Khalifa University Programming Contest 2023 – Khalifa University

### Distinguished Peer Tutor – Khalifa University Student Services

## CERTIFICATIONS

06/2024

**INE - eLearn Junior Penetration Tester**

08/2023

**Khalifa University Cyber Security Academy - Penetration Testing and Red Teaming**

06/2023

**Google - Cybersecurity Professional**

02/2023

**IBM - Professional Cybersecurity Analyst**

## EXTRACURRICULAR ACTIVITIES

2022 – CURRENT

**Cybersecurity Enthusiast**

- Ranked around **3000 out of 4+ million** users on TryHackMe
- Consistently engaging in various challenges and learning paths to refine my cybersecurity skills.

## VOLUNTEERING

2022 – 2024 Khalifa University

**Peer Tutor**

- Assisted and tutored students in **Computer Networks, Computer Security, and Database Systems courses.**
- Awarded **Distinguished Peer Tutor** in recognition of my efforts and commitment.

1. Led a team of volunteers tasked with showcasing Eritrean cuisine during Khalifa University Global Village.
2. Had the incredible opportunity to learn about the culture and traditions of several countries.

## ● **LANGUAGE SKILLS**

---

Mother tongue(s): **TIGRINYA**

Other language(s): **ENGLISH**