

# KEVIN NYAWAKIRA

Application Security Engineer | Security Researcher

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## SUMMARY

**Passionate Application Security Engineer** with expertise in vulnerability assessment, penetration testing, and DevSecOps integration. Former web developer turned security specialist with a proven track record of building custom security tools and automating security processes. Experienced in red team assessments, security research, and training teams on offensive security principles. Currently exploring AI applications in cybersecurity and developing innovative solutions for security automation.

## EDUCATION

### Bachelor's Degree in Computer Science

Adventist University of Central Africa

**2016 – 2018 (Dropout)**

Kigali, Rwanda

### High School Diploma

International School of Bujumbura

**2008 – 2015**

Bujumbura, Burundi

## PROFESSIONAL EXPERIENCE

### Application Security Engineer

IREMBO

**2022 – Present**

Kigali, Rwanda

- Conduct comprehensive security testing, code reviews, and vulnerability assessments on web and mobile platforms
- Collaborate closely with engineering teams to integrate security practices into the development lifecycle (DevSecOps)
- Design and implement automated security processes and custom tools to streamline testing and vulnerability discovery
- Establish security standards and best practices across development teams

### Instructor & Application Security Engineer (Part-Time)

SHIELD TECH HUB

**2021 – Present**

Kigali, Rwanda

- Deliver comprehensive training on offensive security principles and vulnerability management
- Guide companies through vulnerability discovery, triage, and remediation processes
- Support startups in implementing DevSecOps practices and hands-on security tooling
- Develop curriculum and training materials for cybersecurity education programs

### Co-Founder, CTO & Chief Hacking Officer

INTORE SECURITY LAB

**2019 – 2021**

Remote

- Led comprehensive red team assessments and penetration testing engagements for diverse client base
- Architected and developed custom exploits and security assessment tools for enhanced efficiency
- Managed technical operations and established security testing methodologies
- Built strategic partnerships and drove business development in the cybersecurity sector

### Lead Developer

IRIS HUB

**2016 – 2021**

Remote

- Delivered end-to-end custom digital solutions and full-stack web applications for early-stage startups
- Led development teams and established technical architecture for scalable applications
- Collaborated with stakeholders to translate business requirements into technical solutions

Notable Projects

<b>Bambda That!</b>   <a href="#">Live GPT</a>   <i>AI, Security Automation</i>	<b>2024</b>
<ul style="list-style-type: none"><li>• Developed an intelligent GPT that converts plain English queries into precise Bambda filters for Burp Suite history analysis</li><li>• Streamlines security testing workflows by automating complex filter creation for vulnerability researchers</li></ul>	
<b>K-command</b>   <a href="#">GitHub</a>   <i>Python, Flask, Security Tools</i>	<b>2023</b>
<ul style="list-style-type: none"><li>• Built a Flask-based web application providing unified interface for reconnaissance, fuzzing, and scanning tools</li><li>• Integrates multiple security tools into a single dashboard for efficient penetration testing workflows</li></ul>	
<b>subPull</b>   <a href="#">GitHub</a>   <i>Bash, Automation, OSINT</i>	<b>2022</b>
<ul style="list-style-type: none"><li>• Developed Bash script combining popular subdomain enumeration tools with Telegram integration</li><li>• Automates reconnaissance workflows and provides real-time notification of discovered assets</li></ul>	
<b>lazy-BBH</b>   <a href="#">GitHub</a>   <i>Bash, Environment Setup</i>	<b>2021</b>
<ul style="list-style-type: none"><li>• Created comprehensive Bash installer for complete web application security testing environment</li><li>• One-command setup of essential hacking tools and dependencies for bug bounty hunters</li></ul>	
<b>.onion Resume</b>   <i>Tor, Privacy, Web Development</i>	<b>2023</b>
<ul style="list-style-type: none"><li>• Deployed personal resume as a Tor hidden service demonstrating privacy-focused web technologies</li><li>• Showcases understanding of anonymity networks and secure web deployment practices</li></ul>	

Technical Skills

**Security Testing:** Burp Suite, OWASP ZAP, Nmap, Masscan, MobSF, Metasploit, SQLMap, Nikto  
**DevSecOps & Automation:** CI/CD Pipeline Security, Vulnerability Management, Python Scripting, Bash Automation  
**OSINT & Intelligence:** Google Dorking, Maltego, Shodan, GreyNoise, Reconnaissance Automation  
**Reverse Engineering:** Apktool, Ghidra, Binary Analysis, Mobile Application Security  
**AI & Machine Learning:** Custom GPT Development, RAG Implementation, AI Security Applications  
**Programming Languages:** Python, Bash, JavaScript, PHP, Java, C, HTML/CSS, SQL  
**Infrastructure:** Docker, AWS, Linux Administration, Network Security, Tor Networks

Awards & Recognition

<b>Overall Winner &amp; Best Attacker</b>   CyberStars Rwanda Competition	<b>2018</b>
<b>2nd Place</b>   Rwanda National Cybersecurity Competition	<b>2018</b>

Media Coverage & Publications

**The New Times:** "Cybersecurity efforts Mobilise Local Innovative Solutions"  
**IGIHE:** "12 Students Compete in Cybersecurity Defense Competition"  
**IGIHE:** "How to Stay Safe from Cyber Attacks in Today's World"  
**MINICT:** "The winners of Cyber Stars of Rwanda competition rewarded"  
**CyberStars:** "CyberStars of Rwanda 2018 Competition Coverage"  
**CyberRanges:** "CyberStars of Rwanda 2018 Event Report"

Languages

**Kinyarwanda:** Native  
**English:** Fluent  
**French:** Fluent