

# AJAGBE PAMILERIN SHOLA

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## SUMMARY

A First-Class Cybersecurity graduate with over three years of hands-on experience in vulnerability assessment, secure software development, and threat detection. Skilled in designing and implementing AI-driven security systems, intrusion detection solutions, and secure web applications. Strong foundation in penetration testing, malware analysis, and network security, with practical experience using tools such as Burp Suite, Metasploit, Wireshark, and Nmap. Demonstrates a strong interest in cloud security, identity protection, and compliance within enterprise environments.

## EDUCATION

**Cyber Security Science (B. TECH) - First Class Honours.**

**2025**

Federal University of Technology Minna, Niger State. Nigeria

## CORE COMPETENCIES

**Security Domains:** Penetration Testing, Vulnerability Assessment, Malware Analysis, Network Security, Threat Detection & Response, Security Compliance

**Tools & Technologies:** Kali Linux, Burp Suite, Metasploit, Nmap, Wireshark, Git

**Programming:** Python (FastAPI), JavaScript

**Cloud & Security Concepts:** Identity & Access Management (IAM), Secure Authentication, Access Control, Secure System Design

## PROFESSIONAL EXPERIENCE

**Academic Research Consultant (Lead) | JaparmySholly Consult Remote |**

**2024 – Present**

- Mentored 20+ local and international students in technical research and data analysis
- Delivered structured, high-quality technical documentation aligned with UK and Canadian academic standards
- Ensured logical consistency, data integrity, and plagiarism compliance in research outputs.

**Cybersecurity & Performance Analyst (Intern) | Financial & Business Advisory Associates Lagos, Nigeria | 2024 – 2025**

- Conducted vulnerability assessments and security testing on enterprise applications, including PerfTraka
- Monitored IT infrastructure and performed security health checks across client environments
- Supported identification and mitigation of system vulnerabilities in production systems
- Collaborated with development teams to improve application security and performance.

**Software Engineering Intern | BugFix Technologies Minna, Nigeria |**

**2021 – 2022**

- Collaborated in the development of a secure web application components for a post-UTME system with integrated access controls
- Performed debugging, testing, and vulnerability identification prior to deployment
- Applied secure coding practices to reduce common web vulnerabilities

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## TECHNICAL PROJECTS

### AI-Based Antivirus System

- Designed and implemented a hybrid malware detection system combining signature-based, heuristic, and machine learning techniques
- Trained a Random Forest model on the EMBER dataset with VirusTotal API enrichment
- Achieved 97.5% detection accuracy with a 2.5% false positive rate
- Built a real-time file scanning system with classification into malicious, suspicious, and benign categories

### IoT Botnet Catcher (Intrusion Detection & Prevention System)

- Developed a network-based IDS/IPS using Scapy for deep packet inspection and traffic analysis
- Implemented behavioral baselining to model normal IoT device communication patterns
- Built real-time anomaly detection to identify botnet activity such as traffic spikes and unauthorized protocols
- Automated mitigation by dynamically enforcing firewall rules to isolate compromised devices

### Secure E-Exam Scheduling System with Facial Authentication

- Developed a role-based exam scheduling system using Flask and SQLite3 with a three-tier architecture
- Implemented facial authentication to prevent impersonation and unauthorized access
- Designed a conflict-free allocation algorithm for efficient exam scheduling
- Integrated security controls including session management, input validation, and role-based access control

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## CERTIFICATIONS

Certified Software Engineer, ALX Africa	(CERT-ID GJCs57YHre)
Certified Network Security Practitioner (CNSP), SecOps	(CERT-ID 10876200)
Certified Application Security Practitioner, SecOps	(CERT-ID 8279701)

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## ACHIEVEMENTS

- Top 1% participant on TryHackMe (hands-on penetration testing and cyber range labs)
- Served as Class Representative for 7 years, leading and coordinating a large academic cohort