ABANG OBED

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PROFESSIONAL SUMMARY

Security engineer with six years of hands-on experience in security operations, vulnerability assessment, application security, detection engineering, and offensive security. My work spans web, API, mobile, network, infrastructure, cloud, and Windows security, including malware analysis and security tooling. I have worked across government and private-sector environments, delivering security assessments, technical reports, and security research.

PROFESSIONAL EXPERIENCE

Kynettic *Remote (Lagos, Nigeria)*
Lead Security Engineer (Contract) *July* 2026 – Present

- Performed web application, API, and mobile security assessments covering authentication, authorization, session management, business logic, and injection vulnerabilities across client environments.
- Assessed protocol-layer and application security in DeFi systems, investigating swap logic integrity, access control mechanisms, and transaction validation for exploitable flaws.
- Produced structured security assessment reports with severity ratings, clear reproduction steps, and prioritized remediation guidance aligned to the client's risk profile.

National Emergency Management Agency (NEMA-HQ) *Abuja, Nigeria*
Security Operations Specialist (Internship) *June 2025 – January 2026*

- Monitored and investigated security events in a live government SOC using SIEM and security monitoring workflows, supporting alert triage, threat detection, incident investigation, and response across network and endpoint environments.
- Administered Active Directory and endpoint security infrastructure on HP ProLiant servers using MikroTik and Cisco, enforcing access control policies, endpoint detection and response, and network segmentation across departments.
- Performed vulnerability assessments of network assets and maintained security posture of Huawei NetEngine CX600 Metro Services Platform; supported emergency communications infrastructure for Geoinformatics (GIS) data-relay coordination and Mission Control Center operations.

ATL Labs (PinkDraconian) *Tessenderlo, Belgium*
Technical Security Writer *June 14* - July 29 2025

- Developed RBAC (Role-Based Access Control) security courseware covering access control architecture, policy design, and enforcement mechanisms for a structured security education programme.
- Conducted research and technical writing on identity management, access control, and security governance, translating concepts into practitioner-focused training material.
- Produced course visualization content for security training aligned to real-world implementation contexts and threat scenarios.

Phlex IT Events *Remote (London, UK)*
Staff Backend Developer *April 2024 – July 2025*

- Developed REST APIs using NestJS and PostgreSQL for user authentication, OTP verification, session management, and ticket handling at scale.
- Implemented server-side pagination and client caching strategies, improving API responsiveness across datasets exceeding 50,000 attendee records.
- Designed MongoDB ORM architecture and configured CI/CD pipeline for consistent and secure deployment across services.

IDE Nigeria (Simdozi LTD, Marblefoods NG, Stonerockers NG, Aoahomes & BigHomes NG) *Abuja, Nigeria*
Sr. Website Developer & System Architect (Contract) *January 2021 – January 2026*

- Architected a multi-company operations platform using Node.js, Laravel, Three.js, C#, and Azure with role-based access controls and modular department structure.
- Built mobile-first responsive interfaces using Tailwind CSS, reducing page load times and improving user engagement by 57%.
- Resolved IAM permission misconfigurations and cloud deployment security issues across client environments, improving reliability and security posture.

234coins.net (Freelance, Upwork) *Remote*
AWS Cloud Engineer *December 2023*

- Optimized AWS IAM service roles to resolve regional permission and upload failures, reducing deployment errors by 50% on the Unity runtime engine.
- Diagnosed cloud CORS misconfigurations and server reliability issues, improving deployment consistency and security.
- Implemented real-time Redis monitoring for token loading and device activity, ensuring accurate gameplay synchronization across regions.

PUBLICATIONS

[2] Abang, O. (2026). Design and Implementation of a Secure Telemetry-Driven Code Mutation Framework for Controlled Endpoint Detection and Response Resilience Testing in Windows Environments. *[B.Tech Thesis, Federal University of Technology, Minna]*

[1] Abang, O. & Seun Ajayi. (2025). Conversational Artificial Intelligence for Dementia Care: Emotion-Aware Dialogue Design and System Architecture. *[Technical Report, National Centre for Artificial Intelligence and Robotics (NCAIR), Abuja]*

EDUCATION

Federal University of Technology, Minna *Minna-Niger, Nigeria*
B.Tech in Cyber Security Science *2021 – 2026*
Focused on operating systems, Windows internals, endpoint security, and telemetry research; developed custom Windows runtime and security tooling using Python and the Win32 API to study process execution, code mutation, and EDR telemetry resilience.

CERTIFICATIONS

Certified Penetration Testing Specialist (CPTS) *February 2024*
HacktheBox EU Credential ID: HTBCERT-2508B8ABE8
Stack: Active Directory exploitation, Penetration testing, Vulnerability assessment, ThickClient enumeration, Reverse engineering, Security reporting and documentation.

SELECTED RESEARCH & TECHNICAL PROJECTS

GigAfro.com – Freelance Marketplace (Startup, Live Production) *January 2026*
- Built and launched a production marketplace connecting freelancers to gigs using real-time geolocation, ranking algorithms, and network-based worker distribution.
- Designed a dispatch system converting user intent into real-world gig assignments across Android, iOS, and web clients in a live production environment.

Stack: Flutter (Android), Swift (iOS), React (Web), Apollo GraphQL, WebSockets, Google Places API

Conversational AI for Dementia Care *NCAIR Hackathon Winner, $1,000 September 2025*
- Designed backend services for conversation state management, intent handling, and context-aware LLM-powered dialogue; integrated emotion recognition to adapt responses to inferred cognitive state.
- Built a full-stack dialogue system for real-time dementia support across iOS and web clients using Swift, React, and Node.js with Terraform infrastructure.

Stack: Swift (iOS), React, Wandb, Emotion Recognition ML (pet-emotion-k8t5, empathy-dementia), Terraform & HashiCorp

LiDAR Spatial Assistant for Blind Users *Gemini Hackathon Special Recognition, February 2026*
- Developed an iOS application using device LiDAR for real-time 3D room scanning and object detection; integrated YOLOv9 and ARCore for spatial awareness and audio navigation cues for blind users.

Stack: React Native (ARKit, LiDAR), YOLOv9, ARCore, real-time 3D mesh, TTS audio feedback

Autobot OS *Custom Python Operating System Runtime, September 2023*
- Built tooling to observe execution paths and collect endpoint telemetry, supporting research into how code-level changes affect Windows security visibility and EDR resilience.

Stack: Python, Win32 API, Windows Internals, Event Tracing for Windows, Capstone, Keystone

AZURE-STACK-USSD *October 2023*
- Built a scalable USSD service on Azure Stack Hub, integrating Africa's Talking API to provide enterprise mobile access to USSD services.

Stack: Azure Stack Hub, Africa's Talking API, USSD, Entra

SELECTED HONORS & AWARDS

National Center for Artificial Intelligence & Robotics (NCAIR) Grant Recipient Awarded $1k grant to develop the Dementia ChatBot. (*2025*)

CodeSandbox Security Vulnerability Officially credited for reporting a high-severity security issue on CodeSandbox's GitHub Security Advisory program (GHSA-5jw5-g7mr-h26r). (*2024*)

X (Twitter) Security Vulnerability Improper access control vulnerability, classified as critical severity on HackerOne with a $2K bounty; **CyberSafe HQ** HackTheBox 1st Place Winner. (*2023*)

SELECTED TALKS & PRESENTATIONS

Federal University of Technology, Minna, CyberNexus Starter, Threat detection approaches for iOS application architecture, malware analysis, reverse engineering, and antimalware techniques. (*2026*)

National Association of Cybersecurity Science Students Cybersecurity Awareness Month, Al-Amin Secondary School on Wireless phishing attacks and awareness using Airgeddon (*2023*)

SELECTED COMMUNITY IMPACT & SERVICE

Campus Lead, Cyber Security Experts Association of Nigeria (CSEAN) Student Chapter. Led campus cybersecurity initiatives and coordinated student engagement, awareness, and technical learning activities. (*2024 - 2025*)

Graphic Designer & Video Editor for NaCss Cybersecurity Awareness Month on Zero Trust (*2022*)