TOLUWANIMI ODERINDE

Certified Ethical Hacker (CEH) | Cybersecurity & Software Engineer

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Profile

Certified Ethical Hacker (CEH) and BSc Software Engineering graduate with hands-on experience across offensive security research, secure software development, and applied AI. Builds end-to-end security tooling spanning exploit-primitive detection, shellcode generation, AI-powered surveillance analytics, and secure browsing infrastructure, publishing findings to the security community via GitHub and Medium (InfoSec Write-ups). Currently working in a hybrid QHSE / software and cybersecurity engineering capacity for a multi-business conglomerate, applying security and engineering practice to real organizational systems. Seeking to build on this foundation through graduate study in applied cybersecurity, with research interests in offensive security tooling, AI-assisted threat detection, and secure systems design.

Education

BSc, Software Engineering — Babcock University, Nigeria *Graduated 2024*

- Cumulative GPA: 3.76 / 5.0
- Cybersecurity Lead, Google Developer Student Club (GDSC) Babcock — led student cybersecurity initiatives and Active Directory security training (Sep 2023 – Sep 2024)

Certifications & Professional Development

- **Certified Ethical Hacker (CEH) — EC-Council** | Issued Aug 2025, renewable Sep 2026 | Credential ID: ECC9468751203
- Multi-Cloud Red Team Analyst (MCRTA) — CyberWarFare Labs, Sep 2025 (Credential ID: 68d7c6b34202353317f8496f) — Cloud Security, Red Teaming
- Certified Secure Computer User (C|SCU) — EC-Council, Feb 2022 (Credential ID: 626305)
- Google Cybersecurity Professional Certificate — Coursera, Aug 2024
- Introduction to Critical Infrastructure Protection (ICIP) — OPSWAT, Jun 2024
- Cybersecurity Job Simulations (Forage) — JPMorgan Chase & Co., AIG (Shields Up), Commonwealth Bank, Mastercard, Jul–Aug 2024
- Learn Ethical Hacking from Scratch — Udemy, Jul 2022 (Credential ID: UC-28fb9770-52c8-4227-abfb-0a87c2e6174)

Professional Experience

Genesis Group Nigeria — Software Engineer (Contract) *Feb 2026 – Present*

Port Harcourt, Nigeria · QHSE & Software/Cybersecurity Engineering

- Designed and developed GenHears, a full-stack complaint and feedback management portal (Next.js, MongoDB, Tailwind CSS) covering public submission forms, a role-based admin console, and analytics dashboards with NPS tracking across QSR, Industrial Catering, Hotel, Cinema, and ICB business units
- Built "Ask HR," a retrieval-augmented generation (RAG) HR document assistant with JWT authentication and verbatim document retrieval
- Produced internal communications and governance materials, including a customer service bulletin and a Code of Conduct training script
- Delivered strategic and operational outputs across the group's QHSE and IT functions, including a Q2 strategy presentation for the QSR division and diagnosis/resolution of enterprise network and endpoint issues
- Represented Genesis Group's QSR, hospitality, and oil & gas portfolio (including Blancote Oil & Gas) at NOG Energy Week, Abuja

Future Interns — Software/Cybersecurity Intern *Sep 2025 – Oct 2025*

Remote

- Completed a structured remote internship program focused on applied software and cybersecurity skills, culminating in a verified completion certificate

GDSC Babcock — Cybersecurity Lead *Sep 2023 – Sep 2024*

Nigeria · Hybrid

- Led the cybersecurity track for Google Developer Student Club Babcock, coordinating Active Directory security training and hands-on workshops for student members
- Applied Python-based tooling and security best practices to deliver practical, skills-focused sessions

Nigeria LNG Limited — Intern *Jan 2023 – Jun 2023*

Port Harcourt, Rivers State, Nigeria

- Gained exposure to enterprise software development practices, working with React.js and supporting application development tasks within a major industrial organization

Technical Projects

HeapSentinel — Heap Exploitation Primitive Detector

- Built a static/dynamic analysis tool (Frida + angr) to detect heap exploitation primitives in Linux binaries, achieving strong precision/recall across the how2heap benchmark suite; published to GitHub and Medium

ShellForge — Constraint-Aware Shellcode Generator

- Developed a shellcode generation framework (C99, Python, Flask) across x86-64, x86-32, ARM Thumb, and MIPS BE architectures, completing three architecture phases with 51/51 tests passing

SentinelWatch — AI-Powered Local CCTV Behaviour Detection

- Created an end-to-end local surveillance analytics system (Electron, FastAPI, Ollama/Moondream2) with real-time behaviour detection and ntfy.sh push alerts, built from concept to working demo

Shroud — Geo-Aware Secure Browser

- Built a privacy-focused Electron browser with hybrid Tor/residential proxy routing, browser fingerprint spoofing, and a D3-geo interactive country map; published with a Medium write-up and LinkedIn post

VaultChain — Sovereign Identity Framework

- Designed a blockchain-based identity verification system (Hyperledger Fabric, Node.js, Streamlit) for decentralized credential management

Publications

- *HeapSentinel: Detecting Heap Exploitation Primitives with Frida and angr* — Medium, InfoSec Write-ups
- *ShellForge: A Constraint-Aware Multi-Architecture Shellcode Generator* — Medium, InfoSec Write-ups
- *Shroud: Building a Geo-Aware, Privacy-First Browser* — Medium, InfoSec Write-ups

Technical Skills

- **Security:** Penetration testing, vulnerability assessment, red teaming, Active Directory security, exploit development, malware/heap analysis, cloud security
- **Programming:** Python, JavaScript/TypeScript, C/C99, SQL
- **Frameworks & Tools:** Next.js, React.js, Node.js, Flask, FastAPI, Tailwind CSS, MongoDB, Electron, Frida, angr, Hyperledger Fabric, Ollama
- **Other:** OWASP, OPSWAT critical infrastructure protection principles, technical writing and security research publication