

DADSON EMMANUEL ASHIEDU

SOFTWARE DEVELOPER

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PROFESSIONAL SUMMARY

Computer Science and Informatics student building privacy-first tools in Rust and Python. Open-source creator of steganography systems with encryption and ML-based distortion detection.

CORE COMPETENCIES

- Privacy-first architecture
- Memory safety (Rust)
- Steganography & Encryption
- Open-source collaboration

TECHNICAL SKILLS

- Languages: Rust, Python, Go, TypeScript, SQL
- Frameworks: React, Tauri, Django, Flask, Node.js
- Tools: Git, Docker, Linux, VS Code, Android Studio

PROFESSIONAL EXPERIENCE

Open-Source Developer & Maintainer (Independent / GitHub - CaringStark) | *Feb 2025 – Present*

- Built an audio steganography system with AES-256 encryption, LSB embedding, and ML-based distortion detection. Achieved average Peak Signal-to-Noise Ratio (PSNR) of 86.20 dB and 99% distortion detection.
- Developing an offline, privacy first PDF editor using Rust, React, and Tauri. Targeting 40% memory reduction vs. web-based editors via memory safe Rust and optimized state management.

Information Security Trainee ISACA (Abuja Chapter) | Apr 2025 – Oct 2025

- Implemented role-based access control (RBAC) in a demo network using Cisco Packet Tracer.
- Simulated intrusion detection rules to identify 5 common attack patterns.

EDUCATION

Bachelor of Science in Computer Science and Informatics (Expected Nov 2026)

Federal University Otuoke, Bayelsa State, Nigeria

- CGPA: 4.0/5.0 (top 1% of my set)
- Relevant coursework: Artificial Intelligence, Software Engineering, Information systems, Cyber Security, Data Structures, Human Computer Interaction.