

Raphael Delasi Menyawovor

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Professional Summary

Dynamic Software Engineer and IT Professional passionate about leveraging technology to build innovative, scalable solutions in the healthcare sector. Brings hands-on expertise in secure backend engineering, real-time data processing, IoT automation, and strict cybersecurity compliance. Proven track record of architecting data-secure platforms from scratch and leading technical teams in resource-constrained startup environments. Eager to apply advanced programming and system architecture skills to HealthTech, developing systems that improve healthcare delivery, patient data security, and medical resource management.

Technical Skills

- **Security & Data Compliance:** Vulnerability Assessments, Threat Mitigation, ISO 27001, PCI DSS, Ghana Data Protection Act
- **Backend & Web Development:** TypeScript, Next.js, NestJS, Python, RESTful APIs, WebSockets, Real-time Data Processing
- **Hardware & Infrastructure:** IoT Deployment, Sensor Integration, Cisco Networking, Windows Server Setup, Network Architecture
- **Tools & Architecture:** Git, GitHub, Figma (UI/UX), Systems Architecture, Technical Leadership

Professional Experience

SwapGPA Technologies Ltd.

Lead Engineer | Nov 2024 – Present

- Architected and built the core web application from the ground up utilizing Next.js, prioritizing high performance and highly secure data handling protocols.

- Led technical decision-making and infrastructure planning, maximizing cost-efficiency and resource allocation for an early-stage startup environment.
- Directed a team of 3 developers to design and implement scalable backend services, establishing a robust system engineered for 24/7 long-term reliability.
- Established standard operating procedures for version control, CI/CD workflows, and rigorous code reviews utilizing Git and GitHub.

RINSS Agritech

CTO & Backend Engineer | Jul 2024 – Present

- Spearheaded the technical vision for an early-stage startup in a critical physical sector, demonstrating the ability to translate real-world challenges into robust digital platforms.
- Architected and deployed the core backend infrastructure utilizing TypeScript and NestJS to support complex, scalable software solutions.
- Developed a remote Proof-of-Work (PoW) tracking system, engineered to digitally verify on-site presence, a framework adaptable to remote staff or resource monitoring.

Kowri

Cybersecurity Intern | Nov 2024 – Nov 2024

- Executed vulnerability assessments and security audits on internal corporate network systems to identify architectural weaknesses.
- Detected and mitigated high-level security risks, successfully neutralizing potential domain spoofing and user enumeration attacks.
- Ensured infrastructure compliance with stringent data protection and industry standards (ISO 27001, PCI DSS, Ghana Data Protection Act), establishing foundations critical for handling sensitive user data.

SmartHive Labs

Backend Engineering Intern | Oct 2024 – Nov 2024

- Engineered and integrated real-time data communication features into web applications utilizing WebSockets, a critical technology for live monitoring

systems.

- Participated in an intensive backend development program, rapidly upskilling in modern API architecture, real-time data streaming protocols, and system optimization.
- Collaborated with engineering peers to build and test scalable backend prototypes, optimizing data delivery speeds and application responsiveness.

Projects

IoT Resource Monitoring & Automation System

- Developed and deployed an IoT (Internet of Things) hardware and software solution to monitor physical states (water levels) in institutional infrastructure.
- Automated the pump system based on real-time sensor feedback, successfully preventing resource waste and demonstrating the ability to build reliable, automated IoT monitoring systems.

Campus Network & Security Deployment

- Designed and configured the local area network (LAN) for a newly constructed educational facility, ensuring reliable, uninterrupted connectivity.
- Installed and calibrated a comprehensive CCTV camera system across the building to enhance physical security and real-time monitoring.

Education

Kwame Nkrumah University of Science and Technology (KNUST)

BSc. Computer Science | Jan 2024 – Present

Our Lady of Grace Senior High School

General Science with Elective IT | Jan 2022 - Oct 2024