

BISMARCK OBUOBI

BSc Information Technology | Software Engineer

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PROFESSIONAL SUMMARY

Results-driven Information Technology student with practical experience in web application development, systems administration, IT support, and backend engineering. Skilled in maintaining production systems, modernizing legacy applications, and deploying and managing self-hosted infrastructure on Linux and embedded hardware. Demonstrated ability to learn quickly, solve technical problems, and work effectively in team environments, with a strong interest in building reliable, real-world software products.

EDUCATION

Bachelor of Science (BSc), Information Technology

University of Ghana, Legon — Expected Graduation: 2026

Relevant Coursework: Systems and Network Security, Systems Administration, Database Management Administration, Data Structures and Algorithms, Software Engineering, Computer Networking

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, SQL

Web & Mobile: React, Next.js, React Native (Expo), REST API design, HTML/CSS

Backend: Node.js, Express.js, Spring Boot

Databases: PostgreSQL, MySQL, MongoDB

Systems & Infrastructure: Linux server administration, Docker, Raspberry Pi self-hosting, network configuration, deployment and monitoring

Tools & Practices: Git, GitHub, debugging and root-cause analysis, technical documentation, Microsoft Office Suite

PROFESSIONAL EXPERIENCE

IT Intern — Amasaman Municipal Hospital | Accra | September 2024 (4 weeks)

- Supported the hospital IT unit through daily technical operations in a live clinical environment where system downtime directly affects service delivery.
- Diagnosed and resolved user support requests across desktop systems, peripherals and software, communicating clearly with non-technical clinical and administrative staff.
- Assisted with system administration and IT infrastructure tasks, gaining first-hand insight into how technology operations are run inside a public institution.

PROJECTS

University of Ghana Gym Web Application | Development & Maintenance

- Built and shipped UG Gymnasium, a full-stack TypeScript membership platform for the University of Ghana gym — React 19 + Vite member client, a separate admin dashboard, and an Express 5 / Prisma 7 / PostgreSQL API exposing 45 REST endpoints — delivering ~15K LOC across 400+ commits from schema design through production deployment.
- Integrated Paystack card and mobile-money payments with split-settlement subaccounts and engineered an idempotent activation path — HMAC-SHA512 webhook verification over raw request bytes with constant-time comparison, plus conditional writes inside PostgreSQL transactions
- Automated the full membership lifecycle with node-cron workers (exactly once expiry warnings, auto-expiration, queued renewals that activate the moment the prior term ends, and abandoned-payment cleanup) and hardened the platform with dual-realm JWT auth using isolated admin/user signing secrets, httpOnly path-scoped refresh cookies, bcrypt, Zod request validation etc.

MyKonnectCard — Production Web Application | Maintenance & Modernisation | 2026

- Maintain and modernise a live application serving active users — bug fixes, feature enhancements, performance improvements and legacy code refactoring.
- Work directly with stakeholders to turn reported issues into prioritised technical fixes, improving system reliability and user experience.

Self-Hosted Services on Raspberry Pi | Linux & Infrastructure

- Built and deployed backend services on Raspberry Pi hardware, handling operating system setup, service configuration and remote access.
- Developed practical Linux administration, networking and deployment skills through hands-on troubleshooting and uptime management.

CORE COMPETENCIES

- Analytical thinking, structured problem solving and root-cause troubleshooting
- Collaborative team player with clear written and verbal communication
- Self-directed learner who picks up new tools and technologies quickly
- Reliable, detail-oriented and adaptable across development, IT support and infrastructure work