

## SAMUEL KODI

Accra, Ghana | +233 256 800 729 | [samkodi91@gmail.com](mailto:samkodi91@gmail.com)

[skodi001@st.ug.edu.gh](mailto:skodi001@st.ug.edu.gh) | [https://www.linkedin.com/in/samuel-](https://www.linkedin.com/in/samuel-kodi-51b310261/)

[kodi-51b310261/](#)

## EDUCATION

### MSc. Computer Science

Oct, 2023 – Sep, 2024

University of Ghana, Legon

### BA. Information Studies

Aug, 2018 – Oct, 2022

University of Ghana, Legon

## TECHNICAL SKILLS

- **Frontend:** React, Vite, Next.js, Tailwindcss
- **Backend:** Node.js, Express, Multer, Mongoose
- **Database:** MongoDB Atlas
- **Deployment:** Vercel, Render, Git, GitHub
- **Networking Tools:** Cisco Packet Tracer, Wireshark, GNS3, pfSense, Nagios
- **Operating Systems:** Windows Server, Active Directory, Linux (Ubuntu, CentOS), macOS
- **Cloud Platforms:** AWS (EC2, S3, IAM, Lambda), Microsoft Azure, Office 365, Exchange
- **Programming:** JavaScript (ES6+), Python, C++, SQL, Java, MATLAB

## CORE COMPETENCIES

- IT Support and Troubleshooting
- Network Configuration and Administration
- Cloud and On-Premise Infrastructure Management
- Technical Documentation and User Support
- Web and App Development

## PROJECTS

### Personal Portfolio Website: Next.js + TypeScript

Oct 2025

- Developed a modern, responsive personal portfolio using Next.js, TypeScript, and Tailwind CSS, showcasing skills, experience, and projects.
- Deployed on Netlify with CI/CD integration and GitHub version control.
- Live Demo: [Samuel Portfolio | Next.js 15](#)

**Driver Dashboard: Full Stack Web Application (Vite + JavaScript)**

Aug 2025

- Designed and developed a responsive driver registration and dashboard management system.
- Deployed the frontend on Vercel and backend on Render for public access.
- Live Demo: <https://driver-dashboard-nine.vercel.app>

**NS3 Simulations: Wireless Network Performance Analysis**

Dec 2024 – Feb 2025

- Simulated wireless networks with ns-3 to analyze the effects of node density and traffic load on key performance metrics (Packet Delivery Ratio, End-to-End Delay, and Throughput).
- Conducted traffic load experiments, demonstrating the tradeoff between increased throughput and reduced PDR under high traffic conditions.
- Repository: <https://github.com/Coldsummers/wireless-network-performance-ns3-node-density-traffic-load>

**WORK EXPERIENCE**

---

**Department of Information Studies, University of Ghana**

Nov, 2022 – Oct, 2023

IT Support and Tutoring Assistant

- Oversaw daily operations of a 30-seat computer lab, maintaining 95%+ system uptime during exams and practical sessions for over 500 students.
- Provided first-line technical support to over 150 students and faculty, resolving hardware, software, and network issues to ensure seamless academic operations.
- Facilitated weekly tutorials totaling 10+ hours for 80+ undergraduate students, covering system analysis, programming fundamentals, and telecommunications concepts.

**University of Ghana Computing Systems (UGCS)**

Dec, 2023 – Sep, 2024

Network Administration Intern

- Maintained Windows Server environments and assisted with user account management via Active Directory.
- Delivered technical support to over 150 faculty and staff, diagnosing and resolving network connectivity issues across multiple departments.
- Assisted in the design, implementation, and management of VLANs and subnets, improving internal traffic flow and network segmentation.
- Supported configuration and troubleshooting of over 20 network devices, including Cisco routers, managed switches, and firewalls, enhancing overall infrastructure reliability.

**CERTIFICATIONS & TRAINING**

---

- ISC2 Certified in Cybersecurity (CC):

<https://drive.google.com/file/d/15UoyTKybuAq9eyUmle5zm6jUPwI5oQNE/view?usp=sharing>