**Samuel Oluwafemi Adebayo**

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**professional SUMMARY**

Network Engineer (HCIE Datacom #28303, CCNP Enterprise Core) with expertise in large-scale routing, switching, security, SD-WAN, OSPF, BGP, TCP/IP, and network automation using Python. Comfortable with Linux. Proven track record in optimizing networks, reducing downtime by 40%, and enhancing performance by 30%+. Skilled in designing secure, scalable infrastructures across enterprise and government sectors, with hands-on AWS and Linux experience.

**professional experience**

**Huawei Technologies Nigeria Limited,** Abuja, Nigeria April 2023 - Present

***Network Engineer***

* Architected a scalable L2TP/IPsec solution for 110+ remote sites, saving **$1.5M annually** while improving security and network performance by 40%.
* Automated passwords change for 500+ devices with Python, cutting manual effort from **1** **week** to less than **30** **minutes**.
* Engineered secure, scalable networks for Nigeria Army, connecting 20+ remote sites, cutting downtime by 40%.
* Troubleshot TCP/IP performance issues across LAN/WAN environments using Wireshark, identifying packet loss, retransmissions, and MTU mismatches, leading to a 25% improvement in network stability.
* Optimized BGP routing policies across multiple sites to improve route convergence and reduce latency by 15%.
* Deployed SD-WAN solutions and automated troubleshooting scripts in Python, improving efficiency by 20%.
* Deployed 250+ Access Points for Government agencies, enhancing coverage and performance.
* Strengthened border surveillance with real-time campus/data center network builds, integrating over 150 border sites.

**University of Port Harcourt,** Rivers State, Nigeria July 2020 - Present

***Instructor***

* Trained **400+** students and professionals in Huawei certifications (HCIA, HCIP), achieving a **350+** exam pass rate.

**Huawei Technologies Nigeria Limited,** Lagos, Nigeria May 2021 - September 2021

***Tools/Digital Automation Intern***

* Developed 10+ automation apps, reduced process time by 20%, and enhanced solution documentation accuracy.

**education**

**University of the People** — *MSc, Information Technology* (CGPA: 3.89/4.0, Jan 2025)

**University of Port Harcourt** — *BSc, Computer Science* (First Class, CGPA: 4.56/5.0, Jan 2023)

**PUBLICATIONS**

* Adebayo, S. O. (2025). The Blind Spot of BGP Anomaly Detection: Why LSTM Autoencoders Fail on Real-World Outages.
* Ugbari, A., & **Adebayo, S. O.** (2025). *A Comprehensive Review of Network Intrusion Detection Systems*. International Journal of Research in Engineering and Science (IJRES), *13*(5), 190-198.

**certificates**

* **Huawei Certified ICT Expert (HCIE #28303)** Datacom
* **Cisco Certified Network Professional** Enterprise
* **Huawei Certified ICT Professional** Advanced Routing & Switching, Network Automation, and Security **(3x HCIP)**
* **Huawei Certified ICT Associate** in Datacom, Security, WLAN, Transmission, AI, and Cloud Computing **(6x HCIA)**

**TECHNICAL skills**

* **Routing and Switching:** OSPF, IS-IS, BGP, MPLS, IPv6, DHCP, L2TP, IPSec, STP, RSTP, MSTP, Stacking, CSS, NAT, VRRP, HSRP, QoS, PPP, PPPoE, IGMP, PIM, VRF, VxLAN.
* **Network Security**: VPNs (IPSec, SSL, DMVPN), ACLs, Firewalls (stateful/NGFW), AAA (RADIUS, TACACS+), Intrusion Detection/Prevention Systems (IDS/IPS), IPsec Tunnels, NAT/PAT.
* **Automation**: Python scripting for network monitoring, troubleshooting, and configuration automation.
* **SD-WAN**: Deployment, optimization, and centralized management across enterprise networks.
* **Cloud Networking** *(Basic knowledge*): AWS (EC2, VPC, VPN, Transit Gateway); Virtualization on Linux/Unix platforms.
* **Monitoring & Analysis**: Wireshark, SNMP, NMS tools.
* **High Availability & Redundancy**: VRRP, HSRP, GLBP, Load Balancing, Link Aggregation (LACP), Redundant WAN Links, Failover Routing (ECMP), Multihoming.
* Strong collaborator and mentor, passionate about continuous improvement and operational excellence.

**awards & honors**

* Huawei ICT Competition **Global Grand Prize** (Jun 2022) and **Regional Grand Prize** (Apr 2022) Winner
* The DKO Award of Excellence for academic achievement in Computer Science (Aug 2024)

**CURRENT LEARNING & CERTIFICATION PLANS**

* Preparing for Cisco **CCIE Enterprise Infrastructure Lab**.
* Preparing for **Huawei HCIE-DCN (Data Center Network)** **Lab.**