



# Joseph Omotayo

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## PROFESSIONAL SUMMARY

Accomplished network infrastructure and cybersecurity professional with over a decade of experience in designing, deploying, and managing advanced telecom, enterprise, and data center solutions across hybrid, private and public cloud infrastructures. Proven ability to transform business requirements into scalable, secure, and reliable technical solutions, ensuring seamless integration across multi-vendor environments. Demonstrated leadership in network architecture, risk assessment, and optimization, delivering measurable performance improvements and cost savings.

## CORE COMPETENCIES

### Networking

**Protocols:** TCP/IP, IPv4/IPv6, BGP, OSPF, IS-IS, EIGRP, RIP, BFD, RADIUS, RoCEv2, TACACS.

**Technologies:** SD-WAN, Wi-Fi, Metro Ethernet, FabricPath, VSS, vPC/vPC+, QoS, ACI, HSRP, GLBP, VRRP, VPLS, EVPN, Infini-band, L3VPN, MPLS, Segment Routing, VXLAN, & GRE.

**Platforms:** Cisco (NX-OS, XE-IOS, XR-IOS, ACI platforms), Juniper (Junos: MX, EX, PTX, E-Series), Arista EOS, Ericsson IPOS Routers, Extreme switches, HPE switches, F5 BIG-IP, NetScaler.

### Security

**Platforms:** Cisco (ASA, FTD, ISE, DNAC, Meraki), Juniper SRX, Palo Alto, Fortinet, Claroty, Nozomi, & Arbor Peakflow

**Technologies:** NAC, VPN, IPsec VPN, Remote VPN, SASE Architecture, Encryption

**Risk management:** Vulnerability assessments, patch management, upgrade, CVE analysis, security zoning

### Cloud & Virtualization

**Cloud Platforms:** AWS, Azure

**Virtualization:** VDC, NFV/SDN, Virtual Routers/Switches, VNF services, Micro-segmentation

### Tools & Monitoring

**Network Management:** SolarWinds, PRTG, ServiceNow, ENM, SIEM, Wireshark.

**Automation:** Python, Ansible, & AI/ML.

## PROFESSIONAL EXPERIENCE

### Senior Network Engineer – Advanced Operations

Boost Mobile (TechM), USA | Mar 2025 – Date

- Leads the architecture and deployment of managed infrastructure solutions for 5G SA O-RAN.
- Acts as emergency support contact for critical operations and business-impacting issues
- Develops and maintains technical documentations, architectural diagrams, and operational procedures.
- Guides and mentor engineers, sharing expertise and technical knowledge.
- Ensure compliance with industry regulations and data protection standards.
- Provides fourth-line infrastructure and architectural supports, in handling complex technical escalations.
- Identifies, investigates, and resolve issues proactively to ensure timely documentation.
- Serves as a major interface with Vendors and OEMs, to ensure seamless critical network issue resolutions.

### Cybersecurity Specialist – Technical Pre-Sales

Schneider Electric, USA | May 2023 – Dec 2023

- Defined and implemented enterprise security strategies to ensure compliance with HIPAA, NIST, PCI DSS.
- Conducted risk assessments and deployed OT security solutions using Claroty and Nozomi.
- Led incident response planning, security audits, and vulnerability remediation.

- Provided technical pre-sales support, validating security solutions through PoCs and demonstrations.

### Senior Network Engineer – IP Networks & Digital Service

Ericsson, MEA | Nov 2015 – Aug 2024

- Deployed and supported secure IP Mobile Packet Network (MPN) and IPRAN solutions for telecom operators across Africa and the Middle East.
- Provided technical sales support, addressing business pain points with network products, services, and security features.
- Coordinated network dimensioning, provisioning, capacity management, and upgrades to meeting evolving operators requirements.
- Implemented advanced data communication technologies, including MPLS/Segment-Routing, SD-WAN, LTE, 5G, Wi-Fi, and Ethernet.
- Led DC migrations, proof-of-concept and service acceptance initiatives to ensure improved network performance.
- Designed scalable IoT network architecture for enterprise, industrial, and transport sectors.
- Integrated data center solutions with NFVI/SDN infrastructures for enhanced efficiency, reliability, and scalability.
- Developed HLDs/LLDs for virtual network functions (VNFs) services and IP infrastructure integration.
- Monitored and improved network security posture, conducting risk assessments, CVE analyses, and quarterly OS patch validations.
- Provided feedback to product development units based on project observations & customer feedback to enhance solutions.
- Modernized IP networks to support enterprise/telecom technology evolution and requirements, including data center, IPRAN (2G to 5G) and core network upgrades like IMS.
- Collaborated with stakeholders on monthly network posture reviews, ensuring alignment with best practices and business goals.
- Prepared and presented technical solution documents to facilitate knowledge sharing across teams and stakeholders.

### Subject Matter Expert - IP Network Planning & Optimization

- Translated business requirements into scalable, secure, and high-performance technical solutions.
- Defined and managed lifecycle processes for network and security infrastructure to include upgrades, patching, backups, and recovery in case of disaster.
- Modernized data center and enterprise networks, transitioning from traditional legacy architectures to scalable leaf-spine-leaf (CLOS) designs.
- Optimized backhaul capacity for Ethernet, Optical, and Microwave links to improve throughput and mitigate latency & delay.
- Integrated telecom nodes such as EPC, IMS, CS core, IPRAN, and UDC into existing network infrastructure using DC gateway routers.
- Engineered and supported multi-vendor networks to ensure interoperability across Ericsson, Cisco, Juniper, Extreme, HPE, Palo Alto, and Arista network infrastructure.
- Provisioned, integrated, and optimized IP network infrastructures, deploying advanced routing protocols such as MP-BGP, OSPF, IS-IS for IPv4/IPv6 & MPLS/Segment-Routing.
- Leveraged cloud expertise to design and manage network infrastructure integration with Google cloud, Azure, and Amazon cloud.
- Collaborated with key vendors such as Cisco, Juniper, Fortinet, HPE, Palo Alto, and Arista to resolve complex network and security challenges.

### Service Delivery Manager – Mobile Packet & Enterprise Network

TSSI UK Ltd. | Aug 2014 - Oct 2015

- Provided technical advisory and consulting service to communications service providers (CSPs), ensuring compliance with IEEE, NIST, ISO, ANSI, TIA, & 3GPP standards.
- Led and managed network & security engineering teams, ensuring business continuity and consistent service delivery with the strategic service level agreements.
- Designed, deployed and optimized secure IP network solutions for enterprise clients across industries including banks, hospitals, transportation, and utilities
- Coordinated the deployment and integration of 3G, 4G, and IP/MPLS network infrastructure, delivering scalable and robust solutions.

- Managed L2/L3 support for IP networks, addressing escalations and collaborating with vendor TAC teams for complex issue resolution.
- Collaborated with server teams to resolve technical issues efficiently and define network requirements.
- Led and design, deployment, and validation of IP/MPLS and IPRAN projects, ensuring all technical, operational, and compliance requirements were met.
- Prepared and certified acceptance test plans, maintaining technical standards and operational excellence.

### Senior Specialist – Network & Security Services

IBM West Africa | Aug 2012 - Feb 2014

- Led network security modernization & transformation project for Airtel Africa, enhancing infrastructures across 17 countries.
- Deployed and configured Cisco & Juniper routers, switches, firewalls, load balancers to strengthen security and ensure business continuity.
- Developed and implemented security zoning architecture, SNMP, NTP/PTP, NAC, TACACS+, and WAN solutions to enhance data center performance, security, reliability, & synchronization.
- Performed regular vulnerability scanning, patch validation, risk management, and upgrade (SW/HW) for enterprise and data center infrastructure.
- Authored comprehensive network documentations (HLDs/LLDs), supporting network planning, optimization & operations.
- Worked closely with server teams to define application network requirements and resolve technical issues efficiently.

### EDUCATION

#### Master of Business Administration

Weatherhead School of Management, Case Western Reserve University,  
Cleveland, OH, USA

#### Bachelor of Mechanical Engineering,

University of Ilorin, Nigeria

### CERTIFICATIONS

Cisco Certified Internetwork Expert - *CCIE#62603*

**Dubai**

Cisco Certified Specialist – *Data Center / SP / Security*

**Dubai**

Cisco Certified Network Professional

**Nigeria**

AWS Solution Architect Associate

**Dubai**

Juniper Network Certified Professional – *Security / SP*

**Nigeria**

Fortinet Network Security (*NSE1 - 3*)

**Nigeria**

### PROJECTS & ACHIEVEMENTS

**EITC Du Dubai:** Led the design, deployment, integration, and migration of a billing system IP network with Cisco ACI fabric and a multi-vendor MPLS network across the UAE, ensuring seamless interoperability and high-performance connectivity.

**Vodafone Oman:** Directed the deployment and integration of 4G/5G IP networks and Data Center NFVI across sites in Oman.

**Airtel Africa:** Cluster led for the data center transformation and migration across 17 Africa countries for enterprise services.

**SMILE Nigeria:** Optimized and scaled 4G IP/MPLS and CDN networks across Nigeria, Uganda, and Tanzania for enhanced performance and capacity.

**Airtel Nigeria:** Optimized network infrastructure & implemented scalable solutions for seamless business continuity, enhancing operational assurance with 45% growth in data & voice traffic volume. Improved network performance by 65%.