Vishnu Indusekharan

📍 London, United Kingdom

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🪪 Profile

Senior Network Engineer with 10+ years of experience architecting and scaling large-scale infrastructure solutions for global cloud environments. Demonstrated expertise in transforming traditional networks to modern platforms, with deep knowledge in routing, switching, and network automation. Proven track record of leading complex migration programs handling 100+ Tbps of traffic while driving significant operational efficiencies through automation and infrastructure as code solutions. Strong technical leadership in developing innovative tools and frameworks that enable data-driven infrastructure decisions and support exponential growth.

🗂 Certificates

CCIE SP #62851 ⬈   **Cisco Devnet Associate** ⬈   **CCNA R&S** ⬈

CCNA Security ⬈   **CCNP Enterprise** ⬈   **JNCIA** ⬈

Understanding and Visualizing Data with Python ⬈   **Cisco Specialist x 3** ⬈
IOS-XR, SP, Enterprise

🧠 Skills

Routing
Static, RIP, OSPF, BGP, LISP, ISIS

Service Provider
MPLS, RSVP TE, L3VPN, L2VPN, Inter-AS, ISG, BNG, Segment Routing, BGP LS, Traffic Engineering

Platform
Cisco, Juniper, Arista, Whiteboxes

Automation
Python, NETCONF, YANG, Jinja, Linux, Git, Yaml, Yang, IAC, API, AWS services, Data visualizations, Perl

Security
ACL, ZBF, IPSEC, ASA, Snooping, URPF, DMVPN, AAA, RADIUS, ACS

Multicast
PIM, Auto-RP, BSR, MLDP, IGMP, Exchange Connectivity

Switching
VTP, DTP, RSTP, PVST, MSTP, PAGP, LACP

WAN
L2TPv2, VPDN, E1/T1, PPPoE, DSL, CEM, 3G/4G, QOS

General
OSI, TCP/IP, DNS, DHCP, ARP, NAT, IPV4, IPV6, ZTP

💼 Work Experience

06/2022 – present
London, United Kingdom

Network Development Engineer III, *Amazon Web Services*
- Led large-scale network transformation program migrating 100+ Tbps of traffic from traditional vendor platforms to **white box solutions**, maintaining 100% service availability and reducing regional migration timelines through **automated testing**
- Architected and scaled hyper-scale network infrastructure supporting critical cloud services, implementing automated deployment processes that increased delivery velocity by 38% across 21+ global regions
- Developed **infrastructure-as-code** solutions and automation tools that reduced execution time by 59%, saving 600+ engineering hours annually through automated validation and streamlined workflows
- Designed and implemented an **automated capacity planning** system reducing manual effort by 71%, supporting 300% year-over-year project growth, and saving 2,400+ engineering hours annually while enabling data-driven infrastructure decisions

04/2021 – 05/2022
Hyderabad

Network Service Engineer II, *Microsoft*
- Build, Design, Operate and Optimize large-scale WAN network connecting DCs across the world.
- Define and execute network solution testing.
- Develop, deploy, test, and support network automation using Python
- Perform Direct Responsible Individual (DRI) for end-to-end service support. On-call rotation with team members providing high severity incident support as needed, 12x7.

01/2018 – 03/2021
Bangalore

Technical Consulting Engineer, *Cisco Systems*
- Handles high severity issues of Cisco customers across globe related to below technology.
  - Routing: EIGRP, BGP, OSPF, ISIS, NAT, HSRP, PBR, Multicast
  - SP: MPLS, L2VPN, L3VPN, PFR, LISP
  - WAN: ISG, BNG, L2TP/VPDN, CEM, PPP, DSL, ISDN, T1/E1, 3G/4G
  - Others: AAA, DHCP, RADIUS, TACACS+
- Involved in creating multiple Python based applications to automate the analysis of logs and debugs.
- Recreates complex customer issues in cisco labs and work with DE team for fix
- Mentor Junior Engineers and act as escalation for WAN technologies.

10/2016 – 10/2017
Bangalore

Network Engineer, *USEReady Technologies (Client - City Bank)*
- Performing installation and configuration migration and up-gradation of Cisco devices.
- Working on End-of-Life hardware upgrades on head end and remote end devices.
- Implementing configurations and implementation instructions into Client's change management system and ensure that all approvals and processes are adhered to compliant with Audit.
- As part of new design, providing network related configuration to the firewall and load-balancer teams for implementation.

07/2015 – 10/2016
Bangalore

Tier-2 Network Engineer, *STS Infotechnologies (Client : Cisco Systems)*
- Support for network related issues in Cisco sites and Cisco partner sites.
- Identify, troubleshoot and resolve LAN/WAN and Wireless network issues in window time.

- Implement new network as per the client requirement.
- Configuring the Cisco Switches with proper VLANs, data and voice.
- Configuring Cisco ASA Firewall (NAT RULES, BGP, ACL RULES)
- Hands on Experience on Default, Static, EIGRP, BGP routing protocols and ACL, NAT, HSRP.
- Hands on experience of Layer 2 protocols such as, STP, VTP, VLAN, Inter VLAN routing, Trunks, Port-Channel.

07/2014 – 05/2015
Trivandrum

Network Engineer, *Maclink*
- Configuring and troubleshooting various networking devices including Routers and Switches.
- Maintenance of Network, Day to day troubleshooting
- Troubleshooting network & hardware problems.
- Monitoring WAN links
- Upgradation of IOS

🎓 Education

2010 – 2014
Trivandrum

B-Tech ECE (Dropout), *Kerala University*

2008 – 2010
Idukki

Master Diploma in Multimedia and Animation, *G-Tech*
  18 Months diploma

2008 – 2010
Idukki

Higher Secondary Education, *Board of HSE, Kerala*

🖊 Declaration

I hereby declare that the information furnished above is true to the best of my knowledge.

Vishnu Indusekharan
UK, November 2025