

Santosh Singh Karki

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OBJECTIVE

A hardcore technical professional with 18+ years of experience in network engineering disciplines ranging from network architecture, design, test, implementation & operations for global enterprises & Telco's. Career experience in both individual contributor & team lead roles. Blended this now with next gen skills in software defined & virtualized network infrastructure with a strong desire & potential to add value to any business embarking upon digital transformation.

PROFILE SUMMARY

- ▶ Result-driven self-initiative/drive professional with 18+ years of experience in IT Industry focused on TCP/IP based IT Infrastructure
- ▶ Extensive knowledge of designing, developing, configuring and implementing enterprise networks in diverse environment
- ▶ Extensive experience in both large scale enterprise networks & service provider/Telco NGN MPLS/IP projects. Mostly in Design area.
- ▶ Visionary leadership; always keeping "the big picture" in mind, with the ability to see the end state, share the vision and gain the support and involvement from the team to actively participate
- ▶ Generate network configurations for end-to-end solutions & producing Network High & Low level Designs (HLD & LLD) for campus, branch & Data Center networks
- ▶ Expert knowledge & hands on experience on various types of global Enterprise networks
- ▶ Good & broad understanding of next gen emerging technologies in network engineering space like network automation (mainly with Python), SDN, SD-WAN (Cisco/Viptela, Nokia Nuage), virtualization & cloud technologies.
- ▶ Experience of other domains of IT infrastructure management including server mgmt, AD, messaging, anti-virus, backup solutions, ITIL process implementation
- ▶ Rich experience at both individual contributor & team lead / managerial roles
- ▶ 5+ years of onshore (BT, UK) experience

TECHNICAL EXPERTISE

Platform	Technology
Next Gen NW Tech.	Python, Network programmability & Automation, SDWAN (Cisco Viptela & Nokia Nuage), SDN, NfV, Cisco NSO, YANG, NetConf, SD-Access, ACI, Cloud technologies, AWS, Linux, DevOps – Ansible, Git, IaC (Terraform, Vagrant), Docker, Kubernetes
NW Gears	Cisco 800, 25xx/26xx, 36xx, 37xx, 38xx, 45xx, 65xx, VSS, 72xx, 10k, 12k series, CRS-1/3, Nexus, Alcatel 7750, Juniper routers. Cisco IOS, XR, XE, Juniper JunOS, Alcatel TiMOS

L2 & L3 Technologies	Ethernet, VLAN, STP, RSTP, VTP, LAG, MC-LAG, QinQ, RIP, EIGRP, OSPF, BGP, IPv4, IPv6, Multicast, ToS, LLQ, CBWFQ, WFQ, Shaping, Policing, HQoS, MPLS-VPN QoS, VxLAN, vPC
MPLS Technologies	MP-BGP, LDP, MSPL-TE (RSVP), L3VPN, L2VPN, FRR, PWE3, LL, VPLS, E-LAN, E-Tree

EXPERIENCE SUMMARY

Tenure	Organization	Role
Jul 2013 - Present	BT e-Serv. Pvt. Ltd.	Network Design Technical Team Lead
Nov 2004 - Jun 2013	Infosys Limited	Principal Consultant-Infrastructure Management
Apr 2003 - Oct 2004	Wipro Spectramind Services Ltd.	Deputy Manager-Technology
Jan 2001 - Mar 2003	PC Solutions Pvt. Ltd.	Network Engineer

PROFESSIONAL EXPERIENCE

BT E-SERV PVT. LIMITED

JUL-2013 - PRESENT

GURUGRAM

Designation: Technical Design Team Lead

Duration: Jul'2013 - Present

Role and Responsibilities: -

- ▶ Develop & deliver IT network designs for BTGS customers – Global MNC's. Accountable for the network design deliveries on time and on budget & at the right quality
- ▶ Lead for emerging & Next Gen. network engineering space within T&SD Gurugram Hub e.g. SDH & NfV based products & services. Also leading network automation initiatives for T&SD Gurugram hub.
- ▶ Establish guidelines for customer migrations & develop architecture design for customer network transition & transformations. Recommended new architectural technologies to improve performance
- ▶ Responsible for Network design, implementation & testing for global enterprise networks covering branch, campus and Data center Networks
- ▶ Designing SDWAN solutions, mainly Cisco/Viptela and Nokia Nuage, for global WAN networks. Producing high level architectural designs for global roll outs
- ▶ Conduct and lead detail oriented technical workshops on various network lifecycle activities. Work distribution in the team & final integration.
- ▶ Ensure all projects meet architectural standards, responsible for maintaining & raising design standards by mentoring and reviewing the work of other engineers.
- ▶ Estimating the effects of network changes on existing network architecture
- ▶ Identifying & executing network automation opportunities for various customer networks using custom Python scripts and/or standard Devops tools like Ansible
- ▶ Development of virtual lab facilities for designing & validating customer solutions. Evaluate, test & recommend network design, optimization & NMS tools
- ▶ Guide & work with network operations team by providing L3/L4 support

INFOSYS LIMITED.**NOV-2004 TO JUN 2013****PUNE/UK****Designation:** Principal Consultant-Infrastructure Management**Duration:** Nov 2004 to Jun 2013**Role and Responsibilities: -****1) BT 21C N/W DESIGN & BUILD****OCT 2008 TILL JUN 2013**

- ▶ Worked on-site at BT's innovation hub-Adastral Park at Ipswich, UK for about 5 years
- ▶ Plan & implement test model strategy around future product release & respective test requirements.
- ▶ Understand in detail the go-Live designs for BT 21CN network & reproduce scaled down test model replica for Live & Live+1 configurations consumed by various engineering teams across BT wholesale including network, OSS & BSS teams
- ▶ Produce high & low level designs for test models & operate multiple test models - Rack/stack, patch, configurations, validation & usual operations including changes, troubleshooting & fixes
- ▶ Seamless introduction of new technologies, products & services in test model environment
- ▶ Lead a global team of 15 engineers for 21CN network Test Environment Design, build & Operations.

2) BT 21CN NIT**JAN 2006 TO SEP 2008**

- ▶ Part of IP-MPLS Metro/Core team in Network Integration Testing for BT's 21st Century Network
- ▶ Responsibilities included writing test specifications/plans based on HLD & LLD,
- ▶ Scheduling & executing tests, & producing detailed test reports. Coordinating with other tech towers
- ▶ Recommending design changes based on outcome of network integration testing

3) BT TECHNICAL DESIGN**NOV 2004 TO DEC 2005**

- ▶ Was working for BT as pre-sales Technical Designer (TD) in BT Global Services
- ▶ Designing data/voice networks for BT's APAC customers using technologies like BT MPLS, ATM & FR.

WIPRO SPECTRAMIND SERVICES LIMITED**APR-2003 TO OCT-2004****NEW MUMBAI****Designation:** Deputy Manager-Technology**Duration:** Apr'2003 till Oct'2004**Role and Responsibilities: -**

- ▶ Campus LAN design and implementation using latest technologies and products
- ▶ Client Interaction, Presentations, making proposals, network designs and technical discussions for setting up client networks which includes LAN/WAN/Security aspects as per client requirements
- ▶ Implementation for setting up IT Infrastructure in new facilities in line with global standards.
- ▶ Managing the US & UK carrier neutral facilities remotely from India.

PC SOLUTION PVT LTD**JAN-2001 TO MAR-2003****NEW DELHI****Designation:** Network Engineer**Duration:** Jan'2001 till Mar'2003**Role and Responsibilities: -**

- ▶ Network & system administration for WiproSpectramind e-Services Pvt. Ltd which was one of the largest & fastest growing call center in India
- ▶ Handle all systems & network engineering activities like IP addressing planning, implementation, Windows server & exchange admin, hardware/software upgrades. Security, anti-virus & backups

EDUCATIONAL QUALIFICATIONS

S.No.	Qualification	Board/University	Branch
1.	B.E / A.M.I.E	Institution Of Engineers (India), IEI	Electronics & Communications Engg.
2.	3 Years Diploma	Board Of Technical Education (B.T.E), U.P	Electronics Engineering
3.	SSCE (10+2)	C.B.S.E	Science
4.	SSE (10th)	C.B.S.E	NA

PROFESSIONAL CERTIFICATIONS

▶ Zscaler Certified Sales Engineer (ZCSE)	Jan 2019
▶ Certificate course on Python by Michigan University	Sep 2018
▶ Viptela SDWAN training course	Mar 2018
▶ AWS Certified Solutions Architect	Jan 2018
▶ BQF Lean Practitioner	Mar 2016
▶ Cisco CCIP	Jan 2012
▶ Cisco CCNAv3	Mar 2011
▶ ITILv3 Foundation	Mar 2011
▶ ITILv2 Foundation	Jan 2008
▶ Cisco ASA & PIX Certification	Oct 2007
▶ Cisco CCNP	Oct 2002
▶ Cisco CCNA	Jul 2001
▶ Microsoft MCSE	Aug 2000

PERSONAL INFORMATION

Father's Name	: Late Mr. B.S.Karki
Date of Birth	: 25 th Jun'1976
Nationality	: Indian
Marital Status	: Married with two children - DOB- Apr 2006 & Dec 2010
Passport	: Indian, valid till 2025
Onsite Deputation	: 5 Years in the UK. Client-BT
Languages Known	: English & Hindi
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