Harsh Kotak

Denver, CO, USA **|** Cell: +1 (720)519-9024 **|** Email: harsh.kotak9@gmail.com **|** Web: iKotak.com

PROFESSIONAL SUMMARY:
- Over 5 years of experience in the Telecom and Cable Service Provider industry.
- Broad experience in the fields of datacenter networking, compute, storage, virtualization and containerization technologies.
- Well versed with network routing, switching, load balancing architectures and protocols.
- Experience with installation, configuration and operation of network devices such as Cisco, Arista, Juniper and Cumulus.
- Knowledge and experience in SDN, NFV, service orchestration, distributed cloud, CI/CD and cloud native architectures.
- Experience working in lab and QA environments to test and validate solutions for a multi-vendor ecosystem.
- Ability to program and troubleshoot customized ansible, terraform, python and bash scripts.
- Equipped with Linux system administration experience including configuration, troubleshooting and maintenance.
- Possess good communication and analytical skills with an appetite to grasp new concepts quickly.
- Worked with Agile/Scrum methodology for development and experience using ticketing tools.

TECHNICAL SKILLS:

Programming Languages:	Python, Bash
Routing:	RIP, OSPF, BGP, MPLS, VRF, IPv6
Switching:	VLAN, STP, LACP, MC-LAG, FabricPath, FHRP, VXLAN
Network Management:	SNMP, DHCP, DNS, NTP, IPAM, iPerf, AAA, NetFlow, Tcpdump, Wireshark
Infrastructure as a Service:	OpenStack (TripleO, Kolla-Ansible), KVM, VMware (vSphere, NSX), AWS, Ceph, SDN (Contrail, Nuage)
Packet Acceleration:	SR-IOV, DPDK, VPP, NUMA, OVS Offload, SmartNICs
Container Orchestration:	Docker, Kubernetes, Helm, Rancher, Portworx
Software Tools:	Ansible, Terraform, Git, Jenkins, Artifactory, RH Satellite, EVE-NG, Ixia, TRex, Cloudify, UCS Manager

EXPERIENCE:

Network Engineer III   **June 2016 – present**
Charter Communications (Spectrum)   Denver, CO
- Working on the datacenter network, NFV and platform architecture team at Charter Advanced Engineering. Responsibilities include planning, design, implementation and optimization of network systems.
- Worked on development of containers as a service platform to deploy and manage scalable Kubernetes clusters.
- Incorporate test and build pipelines for a full stack deployment with infrastructure, Kubernetes and application charts.
- Evaluate, test, and optimize all components of NFV including NFVI, VIM and NFVO for edge and datacenter use cases.
- Certified use of packet acceleration technologies and SmartNICs for OpenStack and NFV cloud.
- Developed ansible playbooks to automate provisioning and management of Red Hat OpenStack clouds.
- Worked on installation, configuration, administration, and troubleshooting of OpenStack and Ceph.
- Developed test cases and performed certification testing of datacenter switching platforms.
- Worked on redesign, build and management of the lab consisting 70+ racks of infrastructure from the ground up including network, compute, storage, virtualization and shared services.
- Collaborate with different video and software engineering teams to standardize solution and implementation options.
- Participate in strategic architecture and roadmap development; provide tier support across organizations.
- Created and reviewed design specification, system builds, configuration and associated documentation.

Automation Engineer Intern   **May 2015 – August 2015**
Comcast Cable   Denver, CO
- Worked within the EPS Voice Engineering department of Comcast to automate tasks and support Big Data Analytics.
- Developed stored procedures and ETL tools in Microsoft SQL Server to process CDR and other usage data from switches.

EDUCATION:

Masters in Telecommunications Engineering   **GPA 3.7 / 4.0**
University of Colorado Boulder   August 2014 – May 2016

Bachelors in Electronics & Telecommunication Engineering   **GPA 3.6 / 4.0**
University of Mumbai   August 2010 - June 2014

CERTIFICATIONS: CCNP Enterprise, CCNA Routing and Switching, IPv6 Forum (Silver), OCI Foundations