

# Harsh Kotak

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## 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, and Juniper.
- Knowledge and experience in SDN, NFV, distributed cloud, CI/CD, microservices 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, Django, Bash  
**IP Routing:** BGP, OSPF, MPLS, Multicast, 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:** AWS, OpenStack (TripleO, Kolla-Ansible), KVM, VMware (vSphere, NSX), 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, Itential, Cloudify, Ixia, TRex, UCS Manager

## EXPERIENCE:

### Network Engineer III

**June 2016 – present**

Charter Communications (Spectrum)

Denver, CO

- Working on the cloud and infrastructure architecture team at Charter Advanced Engineering. Responsibilities include planning, design, implementation and optimization of datacenter systems.
- Worked on development of containers as a service platform to deploy scalable Kubernetes clusters on vSphere and AWS.
- 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