ANSHUL CHOUDHARY

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EDUCATION

North Carolina State University, Raleigh, NC   May 2019
Master of Science in Computer Networking
Courses: Linux Networking, Switched Network Management, Internet Protocols, Routed Network Design (RND),
Computer Networks, Design and Analysis of Algorithms, Software Engineering, Strategic Management Foundations

VIT University, Vellore, Tamil Nadu, India   May 2015
Bachelor of Science in Electrical and Computer Engineering

PROFESSIONAL EXPERIENCE

IBM, RTP, NC   Aug 2019 – Present
Network & Firewall Engineer
• Working in Agile/Kanban environment using Zenhub, weekly scrum meetings and standups
• Integrating the Firewall Monitoring using Grafana, Prometheus using Ansible & Python
• Automation using Ansible and configuration management mechanisms for systems control
• Working on Next Generation Palo Alto Firewalls to perform architectural design and operational moves/adds/changes of
 NGFW systems

Nuage Networks (Nokia), Raleigh, NC   May 2018 – May 2019
Software Engineer Co-Op Intern, Aug 2018 – May 2019
• Led deployment of new testbeds by wiring and networking in the Raleigh Network Lab
• Converted VRS (Virtual Routing & Switching) allocations/frees from native APIs to VTM (VRS Memory Tagging)
 APIs
• Created and imported a new logging library for NSG
• Researched and configured physical IXIA traffic generator with Linux Chassis
• Migrated virtual testbeds from archipel to elastic hypervisor based system (TARS) increasing productivity by 30 percent
• Demonstrated ability to work in an Agile environment
Software Engineer Intern, May – Aug 2018
• Configured Jenkins utilizing Github Webhooks to trigger build, test and deployment processes
• Debugged and streamlined processes including environment isolation, local build, running unit and functional tests,
 deployment using make tool
• Developed centralized common helper utility script to facilitate testing and deployment processes for development teams
 by building a sub-module in github

Wells Fargo India Solutions, Bangalore, India   July 2015 – July 2017
Network Security Engineer
• Managed end to end secure network connectivity to meet business unit requests
• Formulated and summarized Cisco and checkpoint network design documents for assigned projects, ensuring accuracy
• Tested, validated and updated ASA 5520, 5580 etc. firewall configuration changes for implementation
• Led and trained interns through implementation work in the Team

TECHNICAL SKILLS

DevOps Tools: Jenkins, Git, Ansible, JIRA, Virtualization, Libvirt API, IPtables, Docker, Container, Make, XML,
Hypervisors (KVM + QEMU), IXIA traffic Generator
Protocols: Layer 2 / Layer 3, DNS, DHCP, Trunking, ARP, UDP, TCP/ IP, Inter-VLAN routing, STP, IPv4, Tunneling,
ISIS , BGP, OSPF, MPLS, CDN architecture, Load Balancing, Iperf and Overlay networks
Languages & Operating Systems: Python, C , Shell Scripting, Bash Scripting, MAC, Windows 7/10, Linux, CentOS
Networking Tools: Cisco Security Manager, Checkpoint Smart Domain Manager, Cisco Packet Tracer, Wireshark

RECENT PROJECTS

Linux Networking: Firewall as a Service (FWaaS, Virtualization, Linux, Ansible)
• Developed a Firewall system (FWaaS) to be integrated with tenants VPC to customize configuration of Firewall as
needed. Firewall features includes connection tracking, HA (Active-Passive), monitoring and basic configuration for
prevention of DOS attacks