

Sneha Irukuvajjula

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Objective

Experienced Network Reliability Engineer with a proven track record of enhancing network stability, performance, and security. Seeking opportunities to leverage my expertise in networking, systems administration, and leadership to drive operational excellence and contribute to a dynamic team

Education

University of Colorado Boulder, Colorado, USA, **Master's of Science in Network Engineering** Expected 2025
Relevant Coursework: Fundamentals of Data Communications, Fundamentals of Network Programming, Linux System Administration

Symbiosis International University, Maharashtra, India, **Bachelor of Computer Applications** 2019
CGPA 7.68/10.00
Relevant Coursework: Network Planning and Designing, Python, Operating Systems

Skills

Technical

- Networking Technologies - TCP/IP, Switching, BGP, OSPF, network configuration management tools, wireless networking, Cisco ISE, network authentication
- Linux Technologies - Bash scripting, Debian
- Programming languages - Python

Soft

- Strong organizational skills, attention to subtle details, ability to prioritize, self-motivated, goal-driven, leadership, multi-tasking and collaborative

Professional Experience

Network Reliability Engineer | Lead Tech Associate, D.E. Shaw India Private Limited Telangana, India Jan 2023 - May 2023

- Managed Tier 3 Network operations, resolving critical issues and conducting root cause analysis
- Analyzed, identified, and rectified production environment issues, optimizing network reliability
- Led incident analysis and resolution, ensuring timely service restoration
- Redesigned and upgraded network infrastructure to enhance stability and performance

Site Reliability Operations Engineer | Senior Tech Associate, D.E. Shaw India Private Limited Telangana, India Dec 2021 - Dec 2022

- Oversaw Tier 2 Networking and Linux operational support, elevating overall supportability
- Mentored 3 System Administrators, developing subject matter experts in networking
- Implemented alerting changes for streamlined operational tasks
- Managed 100% Network and 50% Linux operational escalations from Network Operation Center and Helpdesk teams
- Achieved a remarkable reduction in Networking operational escalations to Network Engineering team, reaching 0%

System Administrator | Senior Tech Associate, D.E. Shaw India Private Limited Telangana, India May 2021 - Nov 2021

- Provided Tier 1 Helpdesk operations and subject matter expertise in Networking
- Coordinated with internal teams for quick incident resolution and service restoration
- Monitored and addressed critical infrastructural issues, ensuring optimal trading support
- Mentored and developed technical skills of mentee, fostering growth and relationship

System Administrator | Technical Associate, D.E. Shaw India Private Limited Telangana, India Jul 2019 - Apr 2021

- Managed Tier 0 Helpdesk operations, ensuring prompt technical support and troubleshooting desktop-related issues
- Appointed as systems technical point of contact for the Human Resources team

Key Professional Projects

Wireless infrastructure setup for Arcesium May 2021 - Apr 2022

- Engineered and took ownership of the project to re-design wireless network infrastructure for the Arcesium, India office
- Researched various options, collaborated with management, and developed an optimal and reliable network design

- Directed end-to-end planning and administration of equipment procurement, including meticulous preparation of a comprehensive bill of materials. Spearheaded quality assessments and compliance checks, ensuring seamless alignment with company standards. Executed the equipment acquisition process with precision, orchestrating a successful rollout of the order in collaboration with CISCO
- Commissioned 2 Catalyst 9300 switches, 74 9120-AXI access points, and 4 Catalyst 9800 wireless controllers in HA setup
- Migrated from older wireless infrastructure and tested setup within the committed deadline

End of Life network devices replacement

Sep 2020 - Oct 2020

- Orchestrated the project to replace End of Life CISCO IOS, IOS XE, and ASA network devices
- Patched various security vulnerabilities and upgraded hardware and software versions for improved performance and stability

Report discrepancies between various accounts using Python

Jul 2020 - Sep 2020

- Productionized a Python code that reports and audits all types of accounts in Active Directory for inconsistencies in various data sources in order to improve the overall security posture of the firm
- Collaborated with various stakeholders like New York and India Information Security and Administration teams to lay down the process of handling audit

Network Device Upgrades

Nov 2020 - Dec 2020

- Led efforts to address security vulnerabilities in Cisco and Arista devices by planning and performing upgrades
- Ensured a seamless transition by planning upgrades, informing stakeholders, scheduling maintenance, and executing upgrades without any disruptions
- Trained 11 professionals across multiple global offices, ensuring upgrades for around 200 critical network devices
- Upgraded 28 Catalyst 9800 wireless controllers and 32 Cisco WAN routers across all D.E. Shaw offices without disrupting regular business operations

Leadership Experience

Tech Team Lead, GNUUnify

Maharashtra, India Oct 2018 - Feb 2019

- Collaborated closely with the university's IT team to analyze and optimize network infrastructure
- Advised event speakers on hardware and software requirements, ensuring seamless presentations
- Orchestrated efficient configuration and deployment of packages to 250 Linux lab systems
- Formed and mentored a 10-member technical team, enabling smooth troubleshooting during events