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
Coursework: Fundamentals of Data Communications, Fundamentals of Network Programming, Linux System Administration

Symbiosis International University, Maharashtra, India, **Bachelor's in Computer Applications**   2019
CGPA 3.45/4.00

Skills

Technical
- Networking Technologies - ARP, STP, TCP/IP, Switching, BGP, OSPF, network configuration management tools, wireless networking, Cisco ISE, network authentication
- Linux Technologies - Bash scripting, Debian, Redhat, DHCP, DNS, Ansible, git
- 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 Projects

Job Scraper automation tool using Python   Oct 2023
- Developed a job search bot to streamline the job search process in Python.
  Libraries used: BeautifulSoup, Requests, argparse

Network port scanner using Python   Nov 2023
- Developed a Python code using the Scapy library for network scanning. The script aims to evaluate the status of TCP and UDP ports on target systems or networks, with the primary goal of identifying open ports through TCP SYN, UDP, and TCP ACK scans.
  Libraries used: scapy, argparse

Personal web application | https://isneha.net using Python   Dec 2023
- Designed and implemented a public-facing, multi-threaded web application over a reverse local proxy.
- Leveraged Nginx, Flask, Jinja2 and Gunicorn.

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
- Commissioned 2 Catalyst 9300 switches, 74 9120-AXI access points, and 4 Catalyst 9800 wireless controllers in HA setup

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

Network Device Upgrades   Nov 2020 - Dec 2020
- Upgraded 28 Catalyst 9800 wireless controllers and 32 Cisco WAN routers across all D.E. Shaw offices without disrupting regular business operations

Leadership Experience

Sysadmin Mentor, D.E. Shaw India Pvt. Ltd.   Telangana, India   Aug 2021 - Dec 2021
Networking Mentor, D.E. Shaw India Pvt. Ltd.   Telangana, India   Jan 2022-May 2022

Tech Team Lead, GNUnify   Maharashtra, India Oct 2018 - Feb 2019

Awards

Esther Sparn Fellowship, University of Colorado, Boulder   Boulder, Colorado Nov 2023
Awarded fellowship for exceptional work in the Network Engineering program.