

# Sneha Irukuvajjula

sneha.irukuvajjula@colorado.edu | +1 (984) 330-1537 | <https://isneha.net> | <https://www.linkedin.com/in/snehairukuvajjula>

## Objective

Passionate Network Engineering graduate student eagerly seeking a challenging Summer 2024 internship opportunity. Seeking opportunities to apply expertise in networking, system administration to automate and streamline complex processes.

## Education

University of Colorado Boulder, Colorado, USA, **Master's of Science in Network Engineering** Expected May 2025  
Coursework: Fundamentals of Data Communications, Fundamentals of Network Programming, Linux System Administration  
GPA 4.00/4.00

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

## Skills

### Technical

- Networking Technologies - ARP, STP, TCP/IP, Switching, BGP, OSPF, network configuration management tools, 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 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
- Optimize network performance and reliability by maintaining network devices, analyzing and monitoring technical issues and ensuring availability to system users

**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
- Managed 100% Network and 50% Linux operational escalations from Network Operation Center and Helpdesk teams

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

- Provided Tier 0 and 1 Helpdesk operations and delivering prompt ticketing technical support to resolve issues for 1000+ users
- Monitored and addressed critical infrastructural issues, ensuring optimal trading support

## Key Projects

Job Scraper automation tool using Python Oct 2023

- Developed a job search bot to streamline the job search process in Python.

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.

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 |
| <ul style="list-style-type: none"> <li>Engineered and took ownership of the project to re-design wireless network infrastructure for the Arcesium, India office</li> <li>Commissioned 2 Catalyst 9300 switches, 74 9120-AXI access points, and 4 Catalyst 9800 wireless controllers in HA setup</li> </ul> |                     |
| Report discrepancies between various accounts using Python   | Jul 2020 - Sep 2020 |
| <ul style="list-style-type: none"> <li>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</li> </ul>  |                     |
| Network Device Upgrades  | Nov 2020 - Dec 2020 |
| <ul style="list-style-type: none"> <li>Upgraded 28 Catalyst 9800 wireless controllers and 32 Cisco WAN routers across all D.E. Shaw offices without disrupting regular business operations</li> </ul>  |                     |

### **Leadership Experience**

- |  |                    |                     |
|--|--------------------|---------------------|
| <b>Sysadmin Mentor</b> , D.E. Shaw India Pvt. Ltd.   | Telangana, India   | Aug 2021 - Dec 2021 |
| <b>Networking Mentor</b> , D.E. Shaw India Pvt. Ltd. | Telangana, India   | Jan 2022-May 2022   |
| <b>Tech Team Lead</b> , GNUUnify                     | Maharashtra, India | Oct 2018 - Feb 2019 |

### **Awards**

- |   |                   |          |
|---|-------------------|----------|
| <b>Esther Sparn Fellowship</b> , University of Colorado, Boulder            | Boulder, Colorado | Nov 2023 |
| Awarded fellowship for exceptional work in the Network Engineering program. |                   |          |