Rohit Prasad Vagga Shivaprasad

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Summary

Network Engineer with 1+ years of experience providing 1st and 2nd line support for 500+ users, achieving high SLA compliance. Skilled in Microsoft 365 (Exchange, Entra ID), Windows Server, and network troubleshooting (TCP/IP, DNS, VPNs). Experienced in network security and vulnerability assessment using tools like Wireshark and Nmap, along with PowerShell scripting for automation. Holds CCNA, MCSA, and CEH certifications, with strong expertise in cybersecurity.

Technical Skills

Operating Systems & Platforms: Windows 10/11, Windows Server 2019+, Hyper-V
Cloud & Microsoft Technologies: Microsoft 365 (Exchange, Entra ID), Intune, SCCM
Networking & Protocols: TCP/IP, DHCP, DNS, VPNs, IPSec, GRE Tunnels, Static Routing, AnyConnect
Tools & Monitoring: ServiceNow, TeamViewer, PRTG, Wireshark, Hardware Diagnostics, Cisco Packet Tracer
Scripting & Automation: Python (Netmiko), Bash Scripting, PowerShell
Security & Support: Network Troubleshooting, Incident Management, Patch Management, Endpoint Security, Penetration Testing, SIEM
Security Tools: Metasploit, Nmap, Wireshark, Cisco ASA Firewalls, VLAN Segmentation
Certifications: CCNA, MCSA, CEH

Professional Experience

Network Engineer Mar 2025 – Present
Trinity Technolabs *Remote*

- Configured and maintained Cisco ASA firewalls and implemented site-to-site and remote access VPN tunnels for 5+ client networks, ensuring secure data transmission, controlled access, and consistent connectivity.
- Performed comprehensive network audits using Cisco Packet Tracer and diagnostic tools across 10+ network segments, identifying 15+ outdated devices and misconfigurations, with remediation actions implemented and upgrade planning.
- Monitored network performance and traffic patterns using monitoring tools and log analysis, identifying 20+ instances of packet loss, latency spikes, and bandwidth congestion per month, and implementing corrective configurations.
- Installed, configured, and replaced network hardware including routers, switches, and firewall appliances across 8+ client locations, ensuring proper setup, configuration validation, and minimal disruption to operations.
- Investigated and resolved network latency, packet loss, and connectivity disruptions by conducting 30+ troubleshooting cases, performing root cause analysis, and improving network response time and reliability.

Projects

FORITOS Device | *IDS/IPS · Python · Metasploit · Nmap · Wireshark · SIEM*

- Engineered a secure network architecture by integrating firewalls, VLAN segmentation, and VPN configurations across 3+ simulated environments, establishing controlled network boundaries and strengthening data protection mechanisms.
- Executed comprehensive penetration testing and vulnerability assessment using Metasploit, Nmap, and Wireshark, identifying 10+ critical and high-risk vulnerabilities, followed by structured remediation approaches.
- Automated security monitoring and alerting processes using Python and PowerShell scripts, generating real-time alerts for 50+ simulated threat events, enabling continuous log analysis and improving incident response efficiency.

Hybrid Framework for DDoS Detection Using Machine Learning | *Python · Random Forest · Neural Networks · PCA*

- Formulated a hybrid machine learning framework combining Random Forest, Logistic Regression, and Neural Networks, trained on 225K+ network traffic records, achieving 99.93% detection accuracy with minimal overfitting (0.0154%).
- Processed large-scale network traffic datasets using PCA-based outlier detection and MinMaxScaler normalisation techniques, reducing data noise by 61.2% and improving data quality and model training efficiency.
- Validated model robustness using 5-fold cross-validation techniques, ensuring consistent prediction performance across datasets and testing scenarios while supporting reliable threat detection outcomes.

Network Vulnerability Scanner & Security Audit Tool | *Python · Nmap · PowerShell · Wireshark*

- Developed an automated network vulnerability scanning tool using Python and Nmap, scheduling periodic scans across 10+ subnets and generating structured reports identifying open ports, outdated services, and misconfigurations.
- Integrated Wireshark packet capture analysis into the pipeline to detect anomalous traffic patterns, flagging 20+ suspicious network events per scan cycle for further incident response investigation.
- Automated remediation reporting using PowerShell scripts, delivering prioritised vulnerability summaries to network administrators and reducing manual audit preparation time by 8+ hours per cycle.

Cisco Network Topology Design & VPN Implementation | *Cisco Packet Tracer · IPSec · VPN · VLAN*

- Designed and simulated a multi-site enterprise network topology using Cisco Packet Tracer, implementing VLAN segmentation, inter-VLAN routing, and static routing across 3 simulated office locations.
- Configured IPSec site-to-site VPN tunnels between branch offices, enabling encrypted data transmission and controlled access across simulated WAN links while maintaining SLA compliance for uptime requirements.
- Applied firewall ACL rules and network hardening configurations, reducing simulated attack surface by restricting unnecessary services, ports, and unauthentic access paths across all network segments.

IT Support Automation & Monitoring Dashboard | *PowerShell · Python · PRTG · ServiceNow*

- Built a PowerShell-based automation suite to handle routine IT support tasks including user account provisioning, patch management scheduling, and system health checks across Windows Server environments.
- Configured PRTG monitoring sensors across 15+ network devices, setting threshold-based alerts for CPU load, bandwidth utilisation, and device availability to enable proactive incident management.
- Integrated alert notifications with ServiceNow ticket creation workflows using Python API calls, automating incident logging and reducing manual ticket creation time by 70% during high-volume support periods.

Education

University of Hertfordshire — UK
Master of Science in Cyber Security — *Jan 2023 – Feb 2025*

JSS Shri Manjunatheshwara Institute — India
Bachelor in Computer Applications — *Jun 2019 – Nov 2022*

Certifications

- Cisco Certified Network Associate (CCNA)
- Microsoft Certified Solutions Associate (MCSA)
- Certified Ethical Hacker (CEH)