

Sudarshan Reddy Rajapurada

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Network Engineer

Qualifications Profile

Drive secure, scalable, and future-ready network solutions by leveraging hands-on expertise in Cisco and Palo Alto technologies. Eager to contribute to forward-thinking teams focused on Zero Trust architecture, SD-WAN, and cloud security, while continuously expanding technical leadership and automation capabilities.

- Results-driven network and cybersecurity professional with hands-on experience designing, securing, and optimizing enterprise infrastructure using Cisco and Palo Alto technologies.
- Committed to building secure, scalable, and future-ready networks with passion for Zero Trust architecture, SD-WAN, and cloud security integration.
- Strong technical foundation in routing protocols (OSPF, EIGRP, BGP), VLANs, and high-availability configurations to ensure performance and uptime.
- Skilled in configuring and managing Palo Alto NGFW and Panorama for centralized policy enforcement, threat mitigation, and log analysis.
- Proven ability to bridge communication between technical teams and non-technical stakeholders through clear documentation and effective collaboration.

Technical Proficiencies

Networking:	Packet Forwarding, VLANs, Spanning Tree Protocol, Routing (EIGRP, OSPF, BGP), QoS, IP Services, WLAN, WAN, VPN, DNS, DHCP, Cisco Routers & Switches, Cisco Meraki, Cisco Modeling Labs, Network Configuration, Network Infrastructure
Network Security:	Firewall Configuration, IDS & IPS, Next-Generation Firewall (NGFW) Setup & Management, Zone Security, Security & NAT Policies, APP-ID, Device-ID, User-ID, Security Profiles, Threat & Traffic Information, WildFire Malware Analysis, Protection Profiles for Zones & DoS Attacks
Palo Alto & Panorama:	Palo Alto NGFW, Firewall Management Through Panorama, Panorama Templates & Device Groups, Panorama Setup & Configuration, Log Collectors & Log Forwarding, Panorama Management/Administration, Comprehensive Reporting, Troubleshooting Techniques, Debug-Level Packet Tracing, Traffic Log Analysis
Tools & Platforms:	Wireshark, NMAP, Metasploit, Aircrack-ng, Ansible, GitHub, Cisco Modeling Labs, Linux
Scripting & Automation:	Python, Java, PowerShell, Network Automation

Education & Certifications

Master of Science in Cybersecurity, DePaul University, 2025

Network Security, Digital Forensics, Computer Security, Ethical Hacking (Applied Social Engineering)

Bachelor of Science in Computer Science, Visvesvaraya Technological University, 2022

Cisco Certified Network Associate (CCNA 200-301), [URL](#), 2024

Network Hacking Continued: Intermediate to Advanced – Udemy, 2023

Learn Ethical Hacking from Scratch – Udemy, 2022

Bug Bounty Hunting & Web Security Testing from Scratch – Udemy, 2022

Social Engineering from Scratch – Udemy, 2022

Projects

Firewall Configuration: Dual-Path, Dual-Layer Architecture

- Configured Cisco switches and optimized network maintenance protocols; proposed Active/Passive high-availability firewall cluster to maintain continuous uptime and performance.
- Designed and implemented resilient network security framework for Joe's Snacks using Dual-Path, Dual-Layer configuration to enhance security and manageability.
- Built essential infrastructure components, including WAN connectivity, sales servers, and HR systems.

Enterprise Network Design – Radeon Company Ltd.

- Architected scalable and hierarchical network for four-story office, incorporating VLANs (10–120) to segment and secure departmental traffic using Cisco switching technologies.
- Deployed OSPF routing for efficient inter-VLAN communication, boosting LAN performance and resilience.
- Validated network using simulation tools to ensure successful large-scale implementation.

Jarvis Voice Assistant (Python & Speech Recognition)

- Applied Cisco networking knowledge to enhance integration and connectivity; used Python libraries, such as pytsx3 and SpeechRecognition, as well as implemented thorough documentation and testing to ensure system reliability.
- Developed multifunctional voice assistant ("Jarvis") using Python and Google Speech Recognition APIs, enabling voice-driven tasks, such as email dispatch, application launching, and weather reporting.

Dual Dataset Predictive Modeling – COVID-19 & Titanic

- Applied machine learning to analyze and model COVID-19 and Titanic datasets, generating insights on health outcomes and historical survival predictors.
- Performed data preprocessing, model training, and cross-validation using performance metrics to ensure robust, accurate predictions, skills transferable to IT roles in manufacturing and plant operations.

Publications

Sai Madhavi, D., Reddy, R. S., Shivakumar, M., Godinal, S., & Harshit, B. (2022). Jarvis Voice Assistance. International Journal of Innovative Research in Technology, 9(1), 1317–1321.