Rafael J. Garcia

Network Development Engineer
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SUMMARY

Network Engineer with 15+ years of technical leadership experience. Expert in enterprise network design, automation, and cloud infrastructure. Proven track record of implementing scalable network solutions and leading cross-functional teams.

KEY ACHIEVEMENTS

- Reduced network incidents by 40% through proactive monitoring and automation
- Improved network performance by 35% through QoS optimization and load balancing
- Led successful on-prem and cloud migration of 1000+ DNS zones with zero downtime
- Developed automation framework reducing test and production configuration time by 60%

PRIVATE SECTOR EXPERIENCE

Contract Network Engineer
NASA JPL, MORI Associates | Pasadena, California | Jul 2022 – Present

- Developed Python and Bash automation scripts for network infrastructure management
- Executed enterprise DNS migration from BIND to Infoblox for enhanced scalability
- Configured and optimized BGP, OSPF, and EIGRP routing protocols for Deep Space Network
- Implemented Palo Alto firewall policies and VPN configurations for secure partner access
- Managed VLAN configurations and network segmentation across mission-critical systems
- Built network monitoring solutions using Wireshark and Linux-based performance tools
- Created technical documentation for Cisco IOS configurations and network architectures
- Collaborated with international partners on MPLS implementations and WAN optimization
- Automated QoS policy and Policy Based Routing deployment using Python for VoIP and critical applications
- Maintained 99.9% network uptime for mission-critical communications infrastructure

Government / Military Experience

Network Administrator / Communications Chief

United States Marine Corps | Sergeant | 2012 - 2020
- Led network operations supporting 25+ missions with zero communication failures
- Managed secure communications infrastructure using cryptographic systems
- Trained and mentored 200+ Marines in network operations and cybersecurity
- Implemented network security protocols achieving 100% compliance ratings
- Awarded Navy Achievement Medal for exceptional leadership and technical expertise
- Deployed wireless networking solutions in challenging terrain conditions
- Coordinated multi-site network deployments across international locations

TECHNICAL SKILLS

Routing & Switching: OSPF, BGP, EIGRP, Static Routing, VLANs, STP, EtherChannel, HA
Compliance: NIST RMF (FedRAM), CMMC, SOC 2, HIPPA
Network Services: Palo Alto, Aruba NAC , Infoblox DNS, DHCP, IPAM, Load Balancing, QoS, WAN Optimization
Cloud & Automation: AWS, Azure, Python, Ansible, Bash, IaC, CI/CD Pipeline,
Technologies: Office 365, Jira Service Desk, VoIP, Wireless Networking, Red Hat Linux Administration
Certifications: CCNA, CompTIA Security+, Network+, A+

EDUCATION

California State University Northridge: B.S. Computer Information Technology
Los Angeles Pierce College : A.A. Behavioral Science & A.S. Cloud, Network, Cybersecurity