

PRAKASH N

Network Automation Engineer

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PROFESSIONAL SUMMARY

Network Automation Engineer with 2 years of hands-on experience converting manual network operations into repeatable, version-controlled code. Skilled in Python, Ansible, and Jinja2 for multi-vendor Cisco and Arista environments, covering routing, switching, and firewall automation. Experienced with Git and Jenkins pipelines, configuration drift detection, and compliance validation. CCNA certified.

TECHNICAL SKILLS

Automation and Programming: Python, Ansible (playbooks, roles), Jinja2, REST API, YAML, JSON, Infrastructure as Code, Zero-Touch Provisioning

Python Libraries: Netmiko, NAPALM, Paramiko, NetworkX, PyVis, Flask, Requests, Pytest

DevOps and CI/CD: Git, GitHub, Bitbucket, Jenkins

Networking: Routing, Switching, VLAN, STP, EtherChannel, OSPF, EIGRP, BGP, HSRP, GLBP, ACL, NAT, DHCP, DNS, SNMP, Syslog, TACACS+, AAA

Vendors and Platforms: Cisco (IOS, IOS-XR, 8000 Series), Arista (EOS), Firewalls

Monitoring and Observability: Grafana, Loki, Graylog, OpenSearch, Prometheus

Labs and Systems: EVE-NG, GNS3, VMware ESXi, VirtualBox, Linux (Ubuntu, Rocky Linux), Windows

PROFESSIONAL EXPERIENCE

Network Automation Engineer

Aug 2024 – Present

ZenQuix Technologies Pvt. Ltd., Bangalore, India

- Designed and implemented Ansible-based automation for Cisco and Arista switches and firewalls, reducing manual configuration effort and deployment time.
- Developed reusable Ansible playbooks and roles for VLAN provisioning, IP address management, routing protocol configuration, and firewall rule deployment.
- Built Jinja2 templates to generate standardized, multi-vendor configurations for Cisco and Arista platforms.
- Automated device onboarding, configuration standardization, and software updates across enterprise networks.
- Integrated automation workflows with monitoring and security tools for compliance validation, configuration drift detection, and proactive troubleshooting.
- Integrated network automation into DevOps pipelines using Git and Jenkins.
- Collaborated with network, security, and DevOps teams to deliver scalable, secure, and standardized network solutions.

Software Developer Trainee Intern

Mar 2024 – Jul 2024

ZenQuix Technologies Pvt. Ltd., Bangalore, India

- Configured and troubleshooted Cisco and Arista devices, implementing OSPF and BGP routing, IP addressing, and subnetting for multi-segment networks.
- Assisted with firewall and ACL configuration, network monitoring, and incident resolution.
- Contributed to Ansible automation projects to streamline repetitive configuration tasks.

PROJECTS

Enterprise Network Infrastructure Audit Application | Python, CLI Parsing, Cisco IOS-XR

- Built a modular audit platform with a deterministic pipeline: multi-vendor CLI collection, structured parsing, L2/L3 and interface validation, compliance findings, and executive reporting. Validated on Cisco 8000 sandbox.
- Code: github.com/Prakash-103/network-audit-tool | Live demo: nw-audit-tool.vercel.app

NetGenie360 | Python, Ansible, Jinja2, Git

- Developed a network automation platform for zero-touch provisioning, configuration generation, dry-run validation, and auto-onboarding across vendors.

Enterprise Configuration Generator | Python, Jinja2, YAML

- Created a template-driven CLI tool generating standardized configs for OSPF, BGP, ACL, NAT, HSRP, GLBP, SNMP, Syslog, and TACACS+/AAA.

Interactive Network Topology Generator | Python, NetworkX, PyVis

- Parsed JSON connection maps to automatically build interactive topology diagrams with port-channel grouping and dynamic clustering.

EDUCATION AND CERTIFICATION

Bachelor of Computer Science Engineering

Graduated May 2024

P. A. College of Engineering and Technology, Coimbatore, Tamil Nadu | CGPA: 8.73 / 10

Cisco Certified Network Associate (CCNA)

Cisco