NIHAL SHAJU

Network Engineer Intern

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PROFESSIONAL SUMMARY

MSc Network Management & Cloud Computing student seeking a Network Engineer or NOC internship. Hands-on with Cisco-based enterprise LANs (VLANs, OSPF, HSRP, ACLs, NAT, DHCP, IPsec VPN, RADIUS), device hardening, and vulnerability testing with Nmap, Nessus and Hydra. Python developer hands-on with AI integration and automation for network monitoring and security, including dashboard and intrusion detection projects; systematic troubleshooter with strong documentation habits.

TECHNICAL SKILLS

- **Networking:** TCP/IP, OSI model, subnetting, OSPF, VLANs (802.1Q), STP/RSTP, HSRP, EtherChannel/LACP, inter-VLAN routing, switching, ACLs, firewalls, NAT/PAT, DHCP, DNS, IPsec VPN, RADIUS/AAA, SNMP (concepts), Syslog, Cisco IOS, Packet Tracer
- **Security & Tools:** SSH hardening, DHCP snooping, Dynamic ARP Inspection, port security, TLS/SSL, X.509, Wireshark, Nmap, Nessus, Hydra, Ettercap, Kali Linux, GNS3 and PuTTY (foundational)
- **Systems & Cloud:** Linux (Ubuntu), Windows Server, SELinux, AWS and Azure (foundational)
- **Programming & Tools:** Python, SQL (MySQL, PostgreSQL), JavaScript, React, Flask, Pandas, Git
- **AI & Automation:** Python monitoring dashboards, ML intrusion detection (scikit-learn, PyTorch), Gemini API, AI security-assistant prototype

EDUCATION

MIDDLESEX UNIVERSITY DUBAI — *Dubai, UAE* *Expected Jul 2027*
MSc in Network Management & Cloud Computing
- Modules: Network Architecture, Network Security, Cybersecurity, Cloud Computing, Network Management, Disaster Recovery

UNIVERSITY OF CALICUT — *Kerala, India* *2021 – 2024*
Bachelor of Computer Applications (BCA)

PROJECTS

Enterprise LAN Design & Security Assessment — *Cisco Packet Tracer, Kali Linux* *MSc coursework*
- Configured a VLAN-segmented LAN for a three-floor company (60 workstations, 7 servers): single-area OSPF on three routers, HSRP server-farm gateway, per-floor DHCP, NAT/PAT, and least-privilege extended ACLs.
- Verified HSRP failover by shutting down the active router interface; the standby router took over with no manual intervention.
- Ran a Hydra dictionary attack on SSH to demonstrate weak-credential risk, supporting SSH-only management, DHCP snooping, DAI and port security.

Multi-Site Troubleshooting — *Cisco devices, IPsec VPN, RADIUS* *MSc coursework*
- Diagnosed routing failures across a three-site topology; configured and validated IPsec VPN tunnels and RADIUS.
- Traced connectivity faults hop by hop across routers and switches using a systematic diagnostic approach.

AI-Based Intrusion Detection System — *Python, scikit-learn, PyTorch* *MSc coursework*
- Compared a Decision Tree, Random Forest and PyTorch neural network on NSL-KDD (125,973 train / 22,544 test records): best accuracy 78.9%, best precision 97.1%. Built a socket client-server prototype returning predictions with confidence scores.

CloudNet-Ops-Suite & AuraSec-AI — *Python, Streamlit, React* github.com/NihalShaju
- Built a NOC-style dashboard (simulated latency, AWS/Azure health checks, CIS compliance reporting) and a security-monitoring prototype with a threat topology map, AI assistant and one-click remediation workflow.

PROFESSIONAL EXPERIENCE

CORE7LAB *Jan 2026 – Sep 2026*
Website Developer
- Developed, deployed and hosted several professional, interactive websites using HTML, CSS and JavaScript; managed DNS records, SSL/TLS certificates and cloud hosting.

TMG — *Mumbai, India* *Dec 2024 – Jan 2026*
Marketing & Growth Analyst
- Maintained structured datasets; built dashboards and automated reporting for cross-team performance tracking.
- Worked in a fast-paced, data-driven operations environment, monitoring performance metrics and reporting.

RISS TECHNOLOGIES — *Kerala, India* *Jan 2023 – Dec 2024*
Software Engineer Intern
- Developed Python (Flask) client-server backend systems with MySQL and PostgreSQL integration, including separate admin and user applications; built responsive web interfaces with HTML, CSS and JavaScript.
- Contributed to an AI-driven application within a structured system architecture.

ADDITIONAL INFORMATION

- **Certifications:** Cisco Certified Network Associate (CCNA) – in progress; Python with Data Analytics (2025); Python + Android Internship (2024)
- **Languages:** English, Hindi, Malayalam