NAREN KARTHIK

Electronics & Communication Engineering Student
Networking | Cybersecurity | Linux Systems

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PROFESSIONAL SUMMARY

Electronics and Communication Engineering student with hands-on experience in Linux administration, networking, cybersecurity, and IoT systems. Built practical projects involving self-hosted servers, network intrusion detection, and enterprise network simulation. Seeking internship opportunities to apply technical skills and gain industry experience.

EDUCATION

ANNA UNIVERSITY

Bachelor of Engineering – Electronics & Communication Engineering
CGPA: 7.65 | 2023 – 2027

CODEC TECHNOLOGIES - INTERN

Cybersecurity & Ethical Hacking Intern
Internship Period: 7th June 2026 - 6th July 2026

TECHNICAL SKILLS

Core Skills

- Networking(TCP/IP, OSI, DHCP, DNS, VLAN)
- Linux System Administration
- Cybersecurity Fundamentals
- Network Troubleshooting
- IoT System Design & Sensor Integration

Programming & Tools

- Python
- Cisco Packet Tracer, GNS3
- VMware, VirtualBox
- Git & GitHub
- Embedded C (ESP32, Arduino)

PROJECTS & PRACTICAL EXPERIENCE

Self-Hosted Home Cloud & Web Server (antiX Linux) — **2025-DEC**
Built a self-hosted cloud and web server on an old laptop using Linux.
Configured persistent services, firewall rules, and secure remote access via Tailscale.
Debugged service failures, reboot persistence, and network reachability issues.
Tech: Linux (antiX), Networking, SSH, UFW, Tailscale

AI-Powered Network Intrusion Detection System (NIDS) — **2025-AUG**
Built a real-time network intrusion detection system using Python and Scapy.
Trained ML models on NSL-KDD and CICIDS2017 datasets for attack detection.
Visualized traffic and alerts through an interactive dashboard.
Tech: Python, Scapy, Machine Learning, Network Security

QoS-Based Network Traffic Management — **2026-APR**
Designed a network topology implementing Quality of Service (QoS) policies.
Configured traffic prioritization and bandwidth allocation for critical services.
Evaluated network performance under varying traffic conditions.
Tech: Cisco Packet Tracer, QoS, TCP/IP, Routing & Switching

Enterprise Bank Campus Network Simulation | Cisco Packet Tracer — **2026-FEB**
Designed a secure 3-tier enterprise network with VLAN segmentation.
Configured inter-VLAN routing, DHCP, DNS, Web, and FTP services.
Implemented ACLs, NAT/PAT, and simulated ISP connectivity using Cisco Packet Tracer.
Tech: Cisco Packet Tracer, VLANs, ACLs, NAT, DHCP, DNS

CERTIFICATIONS & TRAININGS

Oracle Certified Foundations Associate - Oracle University
Cybersecurity Analyst Job Simulation - Tata Consultancy Services (Forage)
Industrial IoT & Industry 4.0 - Tamil Nadu Skill Development Corporation
Data Analytics & Visualization Job Simulation - Accenture (Forage)
Foundation Course on Industry 4.0 Technologies – TechSaksham (Microsoft & SAP)

GitHub: github.com/Narenkarthik-07 **| Linkedin:** linkedin.com/in/narenkarthik17