

Nikhil Vangamudi

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Professional Summary

Currently working as a Graduate Assistant at Eastern Illinois University's School of Extended Learning, managing backend infrastructure and ensuring cybersecurity compliance for university websites. I am pursuing a Master's in Cybersecurity (GPA: 4.0), with proven experience in network support, system security, troubleshooting, and technical customer service. I bring hands-on expertise in Cisco technologies, Packet Tracer, Wireshark, VLANs, VPNs, TCP/IP, DHCP, and Linux systems.

As a former Computer Networks Lab Assistant, I led peer-to-peer instruction and supported network configuration, OSI Model troubleshooting, and firewall implementation. I have a passion for collaboration, instruction, and learning in fast-paced environments. Excited to contribute to Cisco Meraki's dynamic team.

Core Competencies

- Network Support & Troubleshooting
- TCP/IP, DHCP, VPN, NAT, VLAN
- Cisco Devices & Wireless Access Points
- Wireshark, Packet Capture Analysis
- Packet Tracer | Routing & Switching
- Customer Support & Communication
- Collaboration | Instruction | Fast-Paced Learning
- Backend Security | Web Administration

Technical Skills

Networking: TCP/IP, DNS, DHCP, NAT, VPNs, VLANs, OSI Model, STP, ARP

Tools: Wireshark, Packet Tracer, Git, AWS (EC2, S3), Visual Studio Code

Languages: Python, PHP, HTML, CSS, Java

Systems: Linux (Ubuntu/CentOS), Windows

Cybersecurity: Firewall Configuration, Risk Assessment, Penetration Testing

Database: MySQL, DBMS

Others: IoT, Web Development, OOP

Education

Eastern Illinois University, Charleston, IL

Master of Science in Cybersecurity — GPA: 4.0

Expected Graduation: August 2026

Vignan's Institute of Information Technology, Vizag, India

Bachelor of Technology in Electronics and Computer Engineering — GPA: 3.58/4.0

Graduation: August 2024

Certifications

- Networking Essentials – Cisco Networking Academy
- Introduction to Cybersecurity – Cisco & Infosys Springboard
- Networking and Web Technology – Infosys Springboard
- Python Programming – Kaggle

Professional Experience

Graduate Assistant – Backend & Web Security

School of Extended Learning, Eastern Illinois University

Jan 2025 – Present

- Maintain backend services and security layers for university websites
- Configure secure login, perform risk scans, and apply firewall rules
- Collaborate with IT staff on DNS, server monitoring, and access control

Lab Assistant – Computer Networks

Vignan's Institute of Information Technology

May 2021 – Aug 2024

- Guided students in Packet Tracer and hands-on labs on VLAN, NAT, and VPNs
- Instructed on troubleshooting LAN/WLAN setups and OSI model functionality
- Delivered instruction on TCP, DHCP, STP, and routing protocols

AWS Cloud Intern

Tech Mahindra Smart Academy

Dec 2023 – Mar 2024

- Developed automation scripts for EC2 and S3 tasks using Python
- Improved Linux server maintenance, saving 25% manual effort
- Contributed to cloud-based NAT/firewall testing environments

Web Developer Intern

Slash Mark

Dec 2023 – Mar 2024

- Delivered secure static websites with encrypted login systems
- Reduced average page load by 50% and enhanced user engagement by 35%
- Collaborated in a fast-paced team delivering 5+ projects using HTML, CSS, PHP

Python Developer Intern

InternPE

May 2023 – Jun 2023

- Built Python-based automation tools for data parsing and analysis
- Developed scalable object-oriented modules increasing efficiency by 20%

Projects

OWASP Risk Calculator – Risk analysis tool for developers

- Delivered 100% automated scoring engine for application risks
- Improved project security evaluation speed by 20%

Secure Web Authentication System – PHP/MySQL Web Security

- Built secure admin/user login using 256-bit encryption and SQLi mitigation
- Enhanced data security with authentication-based access control

Smart Home Automation using ESP8266 – IoT project

- Enabled wireless voice control via Alexa/Google Assistant
- Cut device response latency by 30% with optimized routing logic

Leadership & Campus Involvement

Lead – OWASP VIIT Chapter

- Organized cybersecurity workshops on Wireshark, pen testing, and risk modeling
- Mentored 30+ students on secure coding and open-source tools

Event Organizer – Vista VIIT 2023

- Directed technical event with 200+ attendees; increased turnout by 30%

Project Team Lead – IoT Solar Project (2021–2024)

- Guided team of 4 in energy-efficient wireless charging design
- Recognized for technical execution and deadline compliance