

# Natan Teshome

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## Education

### UNIVERSITY OF MINNESOTA

MINNEAPOLIS, MN

*Bachelor's of Applied Science in Information Technology Infrastructure*

*Expected Graduation - Dec 2025*

- **Major:** Information Technology | Networking
- **Minor:** Computer Science
- **Awards:** Fall 2023 & Spring 2024 Academic Dean's List
- **Relevant Coursework:** Network Programming, Operating Systems, Computer Networking, Python, Advanced Computer Networking, Discrete Structures of Computer Science, Security & Systems, Network Administration.

## Experience

### Networking Research Group

Minneapolis, MN

*University of Minnesota | Twin Cities*

*October 2024 - Present*

- Conducting research on networking technologies, focusing on Software-defined Networking, Network Function Virtualization, and ISP traffic analysis to improve network reliability and security.
- Utilizing formal modeling, experimentation, and evaluation techniques to optimize network architecture.

### Networking Technical Support

Minneapolis, MN

*CSE-IT | Twin Cities*

*September 2024 - Present*

- Delivering comprehensive technical support for network infrastructure issues, specializing in DHCP, DNS, and IP configurations. Including troubleshooting network connectivity and optimizing LAN and wireless setups.
- Maintaining physical network infrastructure, including switches, routers, and Ethernet cables, ensuring reliability.

### Computer Networking | Course Facilitator

Minneapolis, MN

*Information Technology Department | Twin Cities*

*December 2023 - May 2024*

- Conducted weekly problem-solving sessions for 50+ students, focusing on core networking concepts such as TCP/IP, data link protocols, LANs, and routing, overall improving students' practical understanding networking principles.

## Projects

### Cisco 1921: Guest Network Setup | Captive Portal

December 2024

- Configured a Cisco 1921 router to deploy a guest network with VLAN segmentation for secure traffic isolation.
- Implemented a captive portal for user authentication, using ACLs to control guest access and ensure compliance with terms of service.

### VPN Network Topology | Cisco Packet Tracer

November 2023

- Simulated a three-site VPN network in Cisco Packet Tracer, linking a headquarters with two remote sites over the public internet using encryption and encapsulation to ensure security.
- Implemented OSPF as the IGP for intra-site routing and BGP for routing between sites, ensuring dynamic routing.

## Skills

**Programming Languages:** Python, C, Java, Git, Assembly, HTML, Sql, CLI/GUI.

**Operating Systems:** Mac OS, Apple iOS, Azure, Unix, Excel, Linux, Windows.

**Languages:** Native Proficiency in English and Amharic.

## Certificates

### Cisco Certified Network Associate (CCNA)

Completed December 2024

- Earned in December 2024, validating foundational expertise in networking fundamentals, IP connectivity, security, automation, and troubleshooting small to medium-sized networks.

### Cisco Certified Network Professional (CCNP) Enterprise (ENCOR)

Completed November 2024

- Earned in November 2024, demonstrating advanced skills in enterprise networking, including IPv4/IPv6 architecture, virtualization, security, and managing wired and wireless networks