

# Arlo Murphy

☎ (540) 555-0123 ✉ arlo.murphy@email.com

🌐 linkedin.com/in/arlo-murphy 📍 123 Main Street, Blacksburg, VA 24060

## SUMMARY

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Detail-oriented Associate Network Engineer with a solid foundation in network configuration and troubleshooting. Proven experience supporting high-performance network infrastructures for educational institutions. Demonstrated ability to work in team environments while delivering exceptional customer service. Skilled in managing network monitoring tools and performing routine diagnostics to ensure optimal performance. Eager to expand technical expertise through continuous learning and professional development opportunities. Proficient in installing, configuring, and maintaining LAN/WAN technologies while effectively communicating with customers to resolve issues efficiently.

## EXPERIENCE

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### Network Engineer Intern

June 2025 - May 2026

University Project

Blacksburg, VA

Assisted in the installation and configuration of campus LAN/WAN systems, providing reliable connectivity for over 500 users. Involved in daily operational activities focused on monitoring and troubleshooting networking systems. Collaborated closely with project teams, enhancing functionality, security, and performance across university networks.

- Installed and configured campus networking equipment, ensuring seamless internet access and support for staff and students.
- Conducted regular performance evaluations using SolarWinds, proactively identifying potential issues leading to enhanced uptime.
- Collaborated with peers to troubleshoot and resolve outages promptly, achieving significant downtime reduction.
- Documented configurations and procedures, improving training efficiency for new interns.
- Participated in project meetings focused on modernizing network infrastructure, gaining exposure to current industry practices.
- Engaged in workshops pertinent to advanced networking topics, steadily broadening technical knowledge.

### Network Systems Analyst

September 2024 - May 2025

Academic Research

Blacksburg, VA

Analyzed network traffic patterns in a collaborative research project aimed at optimizing university bandwidth usage. Gathered valuable insights by utilizing Wireshark, contributing meaningfully to ongoing improvements in network efficiency.

- Utilized Wireshark for detailed analysis of network congestion during peak hours, formulating strategies for optimization.
- Recommended configuration modifications based on analytic data, resulting in improved overall bandwidth distribution.
- Presented research outcomes at the Technology Symposium, developing presentation skills and networking within the field.
- Maintained proactive engagement in peer research, providing feedback that fostered collective academic growth.
- Pursued self-study to stay abreast of evolving networking trends, encompassing areas including network security.
- Reviewed fellow proposals critically, facilitating interdisciplinary collaboration among students.

## LEADERSHIP & AWARDS

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- Dean's List, Virginia Tech, 2024-2026
- Outstanding Project Award, Network Optimization Research, 2025

## EDUCATION

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### Bachelor's Degree in Computer Science

2026

Virginia Tech GPA: 3.8

Blacksburg, VA

**Coursework:** Data Structures, Networking Fundamentals, Operating Systems, Web Development

## CERTIFICATIONS

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- Cisco Certified Network Associate (CCNA) 📅 2026
- CompTIA Network+ 📅 2025

## TECHNICAL SKILLS

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- **Networking Protocols:** TCP/IP, BGP, OSPF
- **Network Monitoring Tools:** SolarWinds, Wireshark, PRTG
- **Routing Technologies:** Router, Switch, Access Point
- **Security Standards:** NIST, ISO 27001, PCI-DSS
- **Incident Management Applications:** ServiceDesk Plus, JIRA, Freshservice
- **Wireless Technologies:** 802.11ac, WPA2, Bluetooth

- **Operating Systems:** Windows Server, Linux, Unix
- **Virtualization Software:** VMware, VirtualBox, Hyper-V
- **Database Management Systems:** MySQL, Oracle, Microsoft SQL Server
- **Communication Tools:** Slack, Zoom, Microsoft Teams

**SKILLS**

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- Network Configuration
- Troubleshooting
- LAN/WAN Technologies
- Routing Protocols
- Customer Service
- Network Monitoring Tools
- Technical Documentation
- Network Security
- Wireshark
- Performance Improvement
- Bandwidth Management
- Incident Response
- Collaboration
- Analytical Skills
- Project Management
- Emerging Technologies

**PROFESSIONAL AFFILIATIONS**

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- Member, Computer Networking Club, Virginia Tech
- Participant, Hackathon: Build the Future, 2025

**LANGUAGES**

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- English (Native)
- Spanish (Proficient)

**ADDITIONAL INFORMATION**

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**Work Status** : Authorized to work in United States. No sponsorship required.

**REFERENCES**

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AVAILABLE ON REQUEST