

# Kevin McCarthy

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## EDUCATION

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### Rochester Institute of Technology

*Bachelor of Science in Cybersecurity, Minor in Systems Administration*

Rochester, NY

*Expected: Dec 2026*

## EXTRA-CURRICULAR ACTIVITIES & PERSONAL PROJECTS

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### RITSEC (Cybersecurity Club)

2023 – Present

- Active member of RIT's largest academic club, dedicated to student cybersecurity development through student-led education, research, interest groups, and competitions.

### Digital Forensic Case Study

Mar 2025

- Analyzed and extracted hidden data across multiple cases using Autopsy, focusing on steganography and data recovery techniques.

### Virtual Domain & Network Infrastructure

Dec 2024

- Established and managed core Windows Server infrastructure (Active Directory, DHCP, DNS, pfSense) to support Windows and Linux clients, including user, OU, and GPO management.
- Implemented secure collaborative and file sharing solutions by configuring remote Git repositories, a secure vsftpd server, and evaluating rsync, FTP, Samba, and NFS protocols.
- Deployed a secure web service using an Apache web server with SSL/TLS encryption to protect user logins.

## SECURITY COMPETITIONS

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### CORA II: 2nd/18 - Penetration Testing Analyst

Fall 2024

- Applied penetration testing methodologies and analytical skills to identify, document, and provide actionable recommendations for security vulnerabilities.
- Conducted rigorous testing to assess and contribute to the hardening of systems, improving their overall security posture and resilience against potential attack vectors.

### University of Buffalo Lockdown: 2nd/14 - Incident Response Analyst / Team CTF Lead

Spring 2025

- Recovered compromised systems, analyzed malware, reported breaches, and managed incident response directives for operational continuity.
- Assisted with batch script development to automate unauthorized user removal and firewall configuration during incident response.
- Enhanced cybersecurity skills through active participation in Capture The Flag (CTF) challenges, focusing on attack and defense strategies.

### Information Security Talent Search (ISTS): King of the Hill (KoTH) Developer - Black Team

Spring 2025

- Designed and deployed a vulnerable Windows environment featuring multiple attack vectors (RCE & weak authentication) by intentionally misconfiguring security settings to replicate real-world scenarios.
- Validated the environment's exploitability through testing with tools such as Nmap and Metasploit, and by employing various privilege escalation techniques.

## EXPERIENCE

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### Home Improvement Contractor

Oct 2021 – Present

- Seasonal employment applying skills in carpentry, drywall, painting, flooring, tiling, and landscaping to assist in renovation projects at customer owned rental properties.
- Volunteered 200+ hours assisting on home restoration projects across Connecticut and Kentucky.

## TECHNICAL SKILLS

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**Operating Systems:** Windows, Unix/Linux, pfSense

**Coding Languages:** Python, Java, C/C++, Powershell, Bash, MySQL, x86 Assembly

**Cybersecurity Tools:** Git/Github, Visual Studio/VSCode, Metasploit, Nmap, Data Dog, Autopsy, Ghidra

**System Administration:** Virtual Machines, Wireshark, PuTTY, Active Directory, Firewalls, OpenSSH