

**KATIE BARNES**  
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## EDUCATION

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### Merrimack College | North Andover, MA

Master of Computer Science & Software Engineering

Aug 2025

- Key Projects: SIEM log analysis, threat modeling, secure coding, environment hardening, SQL/database security

### Boston University | Boston, MA

Graduate Certificate in Cybercrime Investigations & Cybersecurity

Dec 2021

- Hands-on labs: Incident response, network security, log analysis, vulnerability scanning, digital forensics
- Notable Project: Conducted forensic examinations of digital devices using EnCase software in the Virtual Security Lab

### University of Massachusetts Lowell | Lowell, MA

Bachelor of Science in Criminal Justice

Aug 2020

- Focus Areas: Criminal Investigation, Evidence Handling, Cybercrime Awareness

### Bunker Hill Community College | Charlestown, MA

Associate of Science in Criminal Justice

Dec 2016

- Relevant Coursework: Cyber Crime, Forensics (Lab), Criminal Investigation, Criminal Law

## Additional Training

AT&T 2025 Technology Academy | 5G, Cloud, Network Troubleshooting, Security Concepts

Dec 2025

CompTIA Security+ Training | uCertify Labs via Boston University

Dec 2021

Cyber Investigations Virtual Labs | uCertify

Dec 2021

CompTIA Security+ Exam | In progress

## PROJECTS & TECHNICAL EXPERIENCE

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- **REST & gRPC Server (Python):** Built and tested server to handle API requests, demonstrating strong backend and network protocol knowledge
- **Event Booking Application:** Developed full-stack solution with dynamic seat booking and real-time updates
- **Linear Programming Solver:** Implemented algorithmic solution to optimize resource allocation for maximum profit
- **Digital Forensics Lab (BU):** Conducted forensic imaging, recovered deleted files, and followed chain-of-custody procedures (using Autopsy, FTK, and EnCase)

## SKILLS

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**Programming & Development:** Python, Java, C++, JavaScript, React, Node.js, SQL, Bash, HTML, CSS

**Cybersecurity & Forensics:** Kali Linux, Wireshark, Burp Suite, Nmap, Autopsy, FTK, EnCase, OSForensics, OWASP ZAP, Metasploit, Splunk

**Databases & Platforms:** MySQL, MongoDB, Docker, Git, VMware, Linux, Windows

**Networking & Cloud:** TCP/IP, VPNs, Firewalls, AWS Security, Azure Security

**Frameworks & Compliance:** NIST CSF, MITRE ATT&CK, ISO 27001, GDPR, HIPAA