

Study Cybersecurity with the Cleveland State Cyber Bootcamp

Learn to protect and defend networks with the Cleveland State Cyber Bootcamp powered by Fullstack Academy.

- Add in-demand cyber skills to your resume
- Kick-start or upskill a lucrative cybersecurity career
- Get job search support to help you get hired
- Learn using an industry-driven curriculum and interactive labs
- Receive preparation for the CompTIA Security+ certification exam*



Curriculum

Cybersecurity Fundamentals	Learn the fundamentals of cybersecurity and virtualization technologies while building a security mindset.	 Orientation The security mindset Confidentiality, integrity and availability (CIA) triad Threats, vulnerabilities, and risks Virtualization
Asset and Inventory Management	Gain a working knowledge of the Linux operating system (OS) as you learn knowledge and skills to apply throughout bootcamp and your career.	 Linux Command Line File systems Users and groups Bash scripting
Career Simulation 1	Put your cybersecurity skills to the test as a SOC Analyst 1 for a fictitious company, where you'll work to solve and report a configuration file problem.	 Modifying configuration files Identifying configuration file recommendations
Network Systems	Understand the mechanics of how network connected devices transmit and receive data.	 Networking Wireshark Encoding and encryption Open Systems Interconnection model (OSI model) Firewalls
Programming with Python	Explore Python, a versatile programming language that can be used for a multitude of cybersecurity functions, including malware analysis, scanning, penetration testing tasks, and more.	 Variables, loops, and conditionals String and list methods Dictionaries Regular expressions Log parsing

Please note that this is a sample curriculum and is subject to change. *Students will receive a voucher for one CompTIA Security+ exam attempt.



Curriculum

System Administration	Become a Windows and PowerShell powerhouse by learning to identify and address security concerns for operating systems.	 Windows administration and management Active directory Group policy
Career Simulation 2	Implement a new onboarding process as part of a simulated exercise in new user configuration.	Configure new users and their computers
Red Team (Offense)	Gain offensive security skills to protect computer systems, networks, individuals, and their data from attacks.	 Web vulnerabilities Penetration testing OWASP Top 10 Social engineering Burp Suite Cross-site Scripting SQL injection Metasploit
Career Simulation 3	Practice offensive security and run a mock penetration test.	Offensive securityPenetration testing
Blue Team (Defense)	Secure companies against data breaches and attacks by becoming familiar with cybersecurity defense and Security Information and Event Management (SIEM) solutions.	 Logs/log analysis Splunk and Security information and event management (SIEMs) Digital forensics NIST Cybersecurity Framework Incident response Cloud Foundations
Career Simulation 4	Choose a real-world scenario and solution related to blue or purple team concepts.	 Critical thinking and evaluation
Career Success	Throughout bootcamp and beyond you'll receive career preparation assistance and job search support.	 Build a technical resume and craft cover letters Optimize your LinkedIn profile and network within the industry Interview and negotiation training

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