THE UNIVERSITY OF TEXAS AT DALLAS
Erik Jonsson School of
Engineering and Computer Science
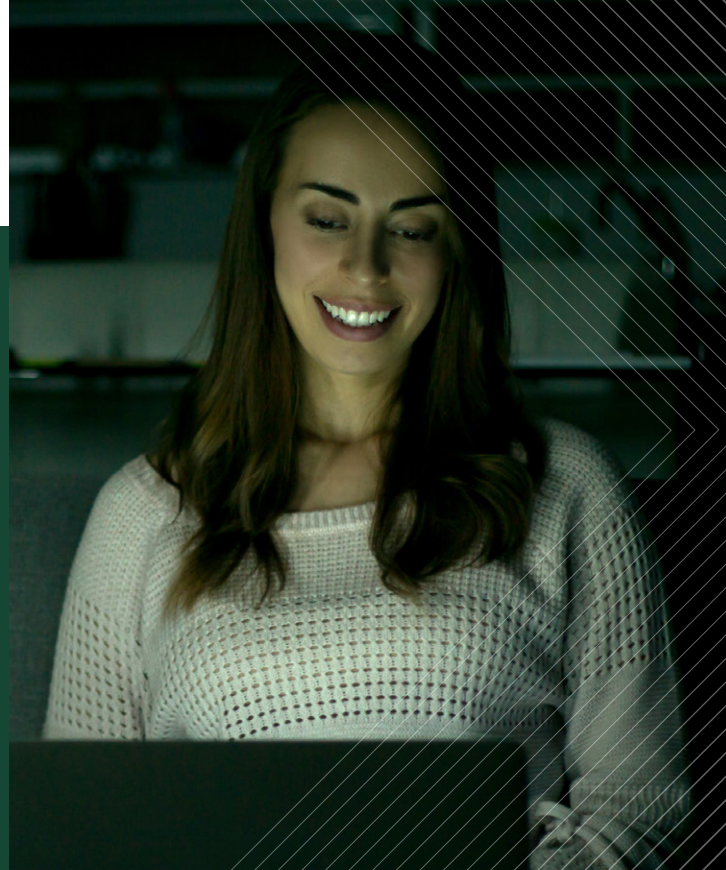
Powered By
**Fullstack
Academy**

Study Cybersecurity with the
UT Dallas Cyber Bootcamp

Learn to protect and defend networks with the UT Dallas 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 AWS Cloud Practitioner 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.

*The price of the AWS Cloud Practitioner certification exam is not included in tuition.

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 security • Penetration 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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