

RC: 1973007

Webstack

I C T G O B A L

Cyber-security Course Outline





Foundations of cyber Security

Explored the cybersecurity profession, including significant events that led to the development of the cybersecurity field and its continued importance to organizational operations. Learned about entry-level cybersecurity roles and responsibilities.



Foundations
of Cybersecurity



Play it Safe: Manage Security Risks

Identified how cybersecurity professionals use frameworks and controls to protect business operations, and explored common cybersecurity tools.



Play It Safe:
Manage Security
Risks



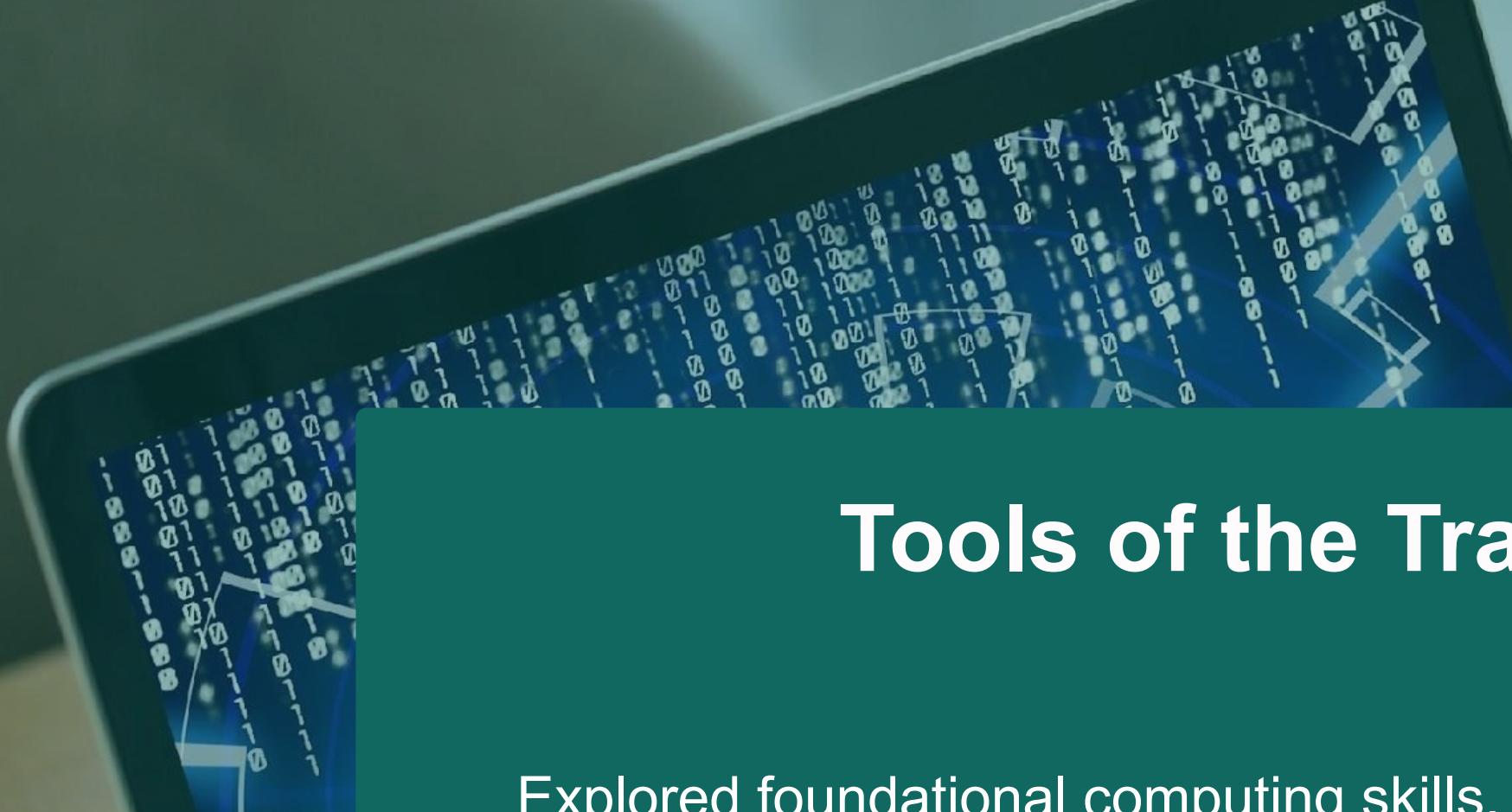
Connect and Protect: Networks and Network Security

Gained an understanding of network-level vulnerabilities and how to secure networks.

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Connect and
Protect: Networks
and Network
Security



Tools of the Trade: Linux and SQL

Explored foundational computing skills, including communicating with the Linux operating system through the command line and querying databases with SQL.



Tools of
the Trade:
Linux and SQL



Assets, Threats, and Vulnerabilities

Learned about the importance of security controls and developing a threat actor mindset to protect and defend an organization's assets from various threats, risks, and vulnerabilities.



Assets, Threats,
and Vulnerabilities



Sound the Alarm: Detection and Response

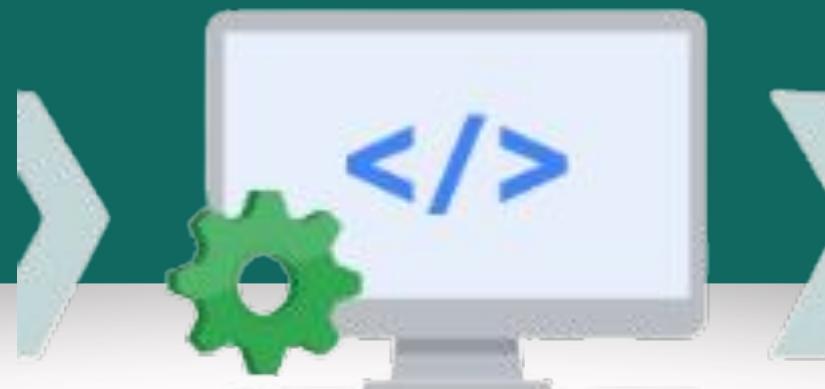
Understood the incident response lifecycle and practiced using tools to detect and respond to cybersecurity incidents.



Sound the Alarm:
Detection
and Response

Automate Cyber Security Tasks with Python

Explored the Python programming language and wrote code to automate
cybersecurity tasks.



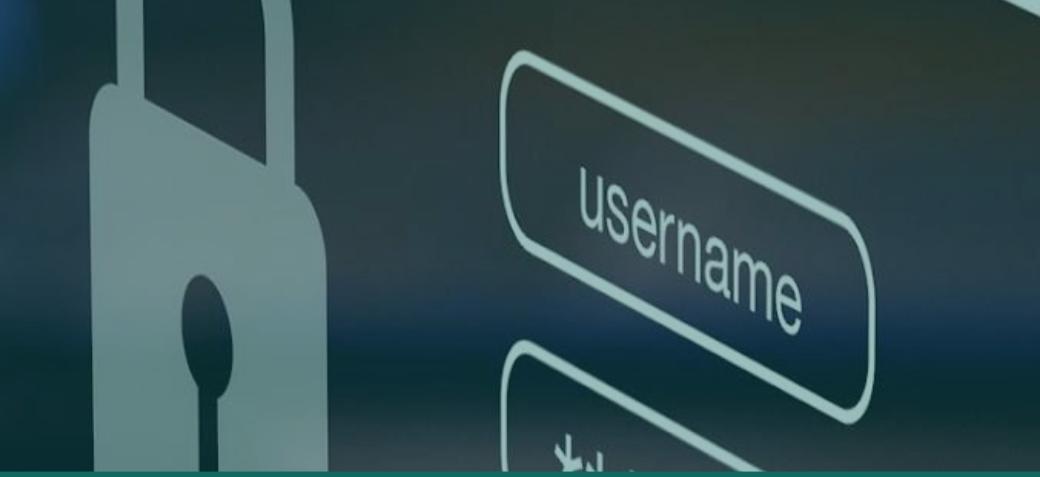
Automate
Cybersecurity
Tasks with
Python



Penetration Testing and Ethical Hacking

Explored the basics of Ethical Hacking and Penetration Testing. We practiced how to set up lab for penetration testing. XSS Hacking, SQL Injection, Hacking and penetrating port 80(http), 5900(VNC) and testing vulnerabilities in vsFTPD.





AI in Cyber Security

The AI in Cybersecurity course introduces students to the transformative role of artificial intelligence in modern cybersecurity. Students will learn how AI enhances threat detection, response, and prevention strategies by automating repetitive tasks, identifying anomalies, and providing real-time insights.



Put it to work: Prepare for Cyber Security Jobs

Learned about incident classification, escalation, and ways to communicate with stakeholders. This course closes out the program with tips on how to engage with the cybersecurity community and prepare for your job search.



**Put It to Work:
Prepare for
Cybersecurity
Jobs**



TUTOR

Digital Eselsa

(Financial Market Analyst/ Cyber
Security Analyst)

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