HACK SECURE

# INTERNSHIP TASKLIST

## RED TEAMING

WEB EXPLOIT

ETHICAL HACKING

CYBER SECURITY

**2025**

BATCH

## *Internship Pre-requisites before starting your tasks:*

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1. **LinkedIn Profile Update:** Ensure that your LinkedIn profile is updated to reflect your technical skills, and update your experience section to include "HACK SEC Cyber Security Intern."

2. **LinkedIn Post:** It's not mandatory to post the offer letter on LinkedIn, but if you wish at the end of the internship, you can post your offer letter and tag us.

3. **Completion of Tasks:** Complete the required tasks as specified in this Task List.

4. **Proof of Work:** At HACK SECURE, we value Proof of Work (POW). You need to get validated from your mentor before you submit your respective tasks in the Task Submission Forms.

**Note:** Do not upload your Report in LinkedIn, this would allow others to copy your work. If the team finds out that you have posted your report in LinkedIn, your internship would be terminated.

After completing all the above steps, proceed with your task completion. Kindly note that all the details and reports you submit will be thoroughly verified before you receive the Certificate.

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# TASK LEVEL INTERMIDIATE

**1).** Find all the ports that are open on the website http://testphp.vulnweb.com/

**2).** Brute force the website http://testphp.vulnweb.com/ and find the directories that are present in the website.

**3).** Make a login in the website http://testphp.vulnweb.com/ and intercept the network traffic using Wireshark and find the credentials that were transferred through the network.

**4.)** Perform SQL injection on the login or search page of http://testphp.vulnweb.com/ and check if the website is vulnerable to SQLi by extracting database information.

**5.)** Inject malicious JavaScript payloads in input fields (such as the comment section or search box) to see if the website is vulnerable to stored or reflected XSS attacks.

# TASK (CTF)

**Red Team Fundamentals**

**Simulated Attack:** Learn adversary simulation, including initial access, privilege escalation, and persistence in a Red Team environment.

**Post-Exploitation:** Perform C2 communication, credential dumping, and lateral movement within a network.

**Tools:** Use PowerShell Empire, Covenant C2, Metasploit, BloodHound, and Mimikatz.

**PickleRick**

- Simulated Attack: Perform initial access, lateral movement, and persistence.
- Post-Exploitation: Data exfiltration and credential harvesting.
- Tools: Use Mimikatz, PowerShell, and Meterpreter.

# ETHICAL HACKING PROJECT

1. **Password Strength Checker**
   - Create a Python program to evaluate password strength based on length, uppercase/lowercase letters, numbers, and special characters.
   - Provide feedback like "Weak," "Moderate," or "Strong."

2. **Basic Port Scanner**
   - Write a Python script to scan open ports on a given IP address and port range.
   - Handle invalid inputs and display open ports.

3. **File Encryption/Decryption Tool**
   - Create a Python program to encrypt and decrypt text files using a secret key with the cryptography library.
   - Include options to save the output as a new file.

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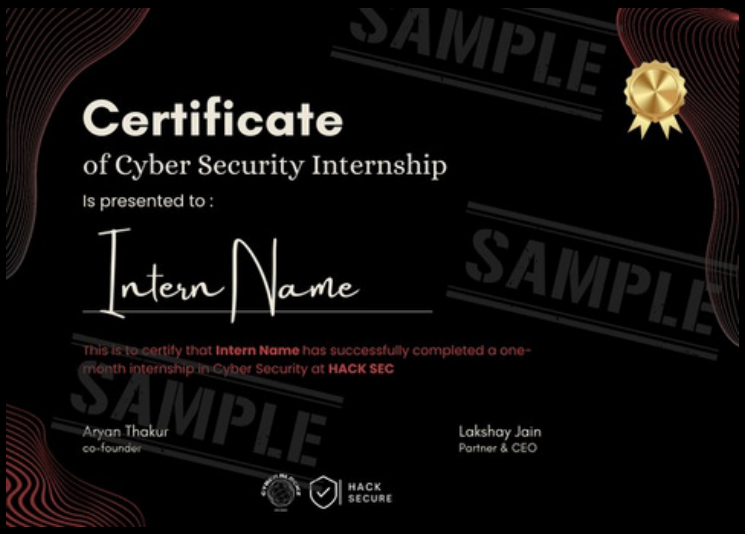
***Congratulations!***

🚀 Here's a Glimpse of Your Future Achievement




***Hack Secure, boosting your Experience with this impactful internship!***

Lakshay Jain
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Aryan Thakur
Founder & MD