

# Siddharth Singh

Vulnerability Assessment & Penetration Testing

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## EDUCATION

**M.Tech(Cyber Security and Digital Forensics)**  
Vellore Institute of Technology, Bhopal

2023 - 2025

CGPA: 9.40

**B.Tech(CSE)**  
JECRC University, Jaipur

2018 - 2022

CGPA: 8.43

## WORK EXPERIENCE

**Cybersecurity Research Intern**  
SISTMR

02/2022 - 03/2022

Australia (Virtual)

*Achievements/Tasks*

- Conducted research on real-world cyber threats.
- Developed an understanding of various cyber threats.
- Analyzed security incidents resulting from cyber-attacks.
- Worked and gained hands-on experience with security tools like Burpsuit, Nmap, and Wireshark.

**Web Developer Intern**  
Sarvadaksh Event Solutions Pvt. Ltd

01/2022 - 07/2022

Delhi, INDIA

*Achievements/Tasks*

- Functioned as a front-end developer for the team.
- Worked with various web development frameworks.
- Assisted in troubleshooting issues on web-based systems.
- Learned how to work effectively in a team.

## CERTIFICATES

**Certified Ethical Hacker(CEHv12)** (11/2024 - 12/2025)  
*by EC-Council*

**Jr. Penetration Tester** (08/2024)  
*by TryHackMe*

**Security Automation with Ansible** (10/2023)  
*by EC-Council*

**Penetration Testing, Incident Response, and Forensics**  
(03/2022)  
*by IBM*

## SKILLS

Python

HTML

CSS

MYSQL

Burpsuit

Metasploit

Wireshark

Nmap

OWASP

Network Models

Nessus

NIST

API Testing

## PERSONAL PROJECTS

**VAmPI - API Penetration Testing** (03/2025)

- Tested VAmPI, identifying OWASP API Top 10 vulnerabilities like BOLA, Mass Assignment, and Security Misconfiguration.
- Used Burp Suite, Postman, FFuf, and JWT attacks for API analysis and exploitation.
- Documented findings with mitigation strategies to improve API security.
- [Link](#)

**AUTOQL: SQL Injection Testing Tool**  
(08/2024 - Ongoing)

- Designed AUTOQL, a Python-based tool for automating SQL injection testing.
- Implemented dynamic payload support, multi-threading, and comprehensive logging. Enhanced vulnerability detection and assessment in penetration testing.
- [LINK](#)

**ADVANCE KEYLOGGER** (03/2024 - 04/2024)

- Developed a Python-based keylogger with system information-gathering capabilities.
- Automated data exfiltration via email for cybersecurity testing purposes.
- Captured up to 800 keystrokes per minute and system snapshots at regular intervals.
- [LINK](#).

**LEXUS** (03/2022 - 07/2022)

- Lexus is a visually appealing, responsive e-commerce site for the fashion industry.
- Technology: HTML, CSS, Bootstrap.
- [LINK](#).

## EXTRA-CURRICULAR

**TryHackMe**  
(Top 3%)

**Cyber Apocalypse CTF by HTB**, (2022)  
Global Rank 1742

**HackTheBox**  
CTF Player

## INTERESTS & HOBBIES

CTF

Video Games

Formula 1

Gardening