

# AARUSH CHANDNA

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## SUMMARY

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Cyber Security Engineer with hands-on experience in penetration testing (lab env), security operations, and automation. Skilled in Active Directory Exploitation and Red Teaming and completed CRTP, CRTE, and ADCS labs. Experienced in building custom tools and realistic training labs to emulate enterprise threat environments. Creator of what-The Hash, an open-source hash identification and cracking tool for CTF and red-team use cases. Proficient in web application security with extensive lab work on PortSwigger, Hack The Box, and TryHackMe. Strong background in scripting and security research, focused on practical offensive security and adversary emulation.

## EDUCATION

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### VIT BHOPAL UNIVERSITY

B.Tech

Bhopal, MP

Aug 2021 - Oct 2025

Computer Science and Engineering (Specialization in Cyber Security and Digital Forensics)

CGPA: 7.59/10

Relevant Coursework: Computer Networking; Software Vulnerability Testing; Ethical Hacking; DBMS

Extra Curriculars: Former President and Co-Founder at The Fintech Club, VIT Bhopal

### WORLD WAY INTERNATIONAL SCHOOL

HSC, 12<sup>th</sup> Grade

Bhopal, MP

Jul 2020 - Jul 2021

Percentage: 65.8%

Subjects: Physics, Chemistry, Mathematics, IT and Physical Education

### IES PUBLIC SCHOOL

SSC, 10<sup>th</sup> Grade

Bhopal, MP

Jul 2018 - Jul 2019

Percentage: 77.6%

Subjects: Physics, Chemistry, Mathematics, IT and Physical Education

Awards and Recognition: National Player - Roller Skating, Captain - Basketball Team

## PROJECTS AND ACTIVITIES

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### What-The Hash

<https://github.com/Cyrush25/what-The-Hash->

March 2025

- Developed an automated hash-cracking tool that enhanced penetration testing efficiency by 60% in controlled lab environments.
- Integrated 'hashid' for detection of more than 40+ hash algorithms, mapping them accurately to hashcat mode IDs, reducing manual errors by 95% during hash classification.
- Automated the cracking process using hashcat, supporting custom wordlists and a default rockyou.txt, enabling password recovery rates of up to 75% in test environments with weak to moderate complexity.
- Implemented top-5 hash type filtering, mode mapping, error handling, and real-time cracked result display.
- Built a lightweight, CLI-based interface with ASCII art headers and interactive prompts, improving usability and reducing input setup time by 50% for red teamers and CTF participants.
- Project reflects hands-on understanding of common hashing algorithms (MD5, SHA1, NTLM, etc.) and password attack strategies.

## **CTF Player - TryHackMe, HackTheBox & Portswigger Academy**

March 2022 - Present

- Solved vulnerable labs on Web Security Academy comprising of web vulnerabilities including - SQLi, XSS, SSRF, Authentication, Path Traversal, OS Command Injection and OAuth.
- Completed learning paths on Tryhackme including Security 101, Web Fundamentals, Pre-Security and Jr Penetration Tester learning path
- Covered tier 0, 1 and 2 learning modules of the Bug Bounty Hunter job role path on HackTheBox Academy and gained comprehensive knowledge of web recon, enumeration and exploitation.

## **SKILLS**

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Languages – Python, C#, Powershell, C++

Skills and Technologies – Linux, Docker, Bloodhound, OWASP Top 10, Burp Suite, Hydra, Nmap, Metasploit

## **CERTIFICATIONS**

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- EC Council - Certified Ethical Hacker (CEHv12)
- Amazon Web Services - AWS Certified Cloud Practitioner

## **ADDITIONAL**

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Awards & Recognition: Ranked 94/5000 Globally in Nahamcon CTF 2022. Ranked 2nd in Central India at National Financial Literacy Quiz 2024 by SEBI and NISM