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Amey Pathak

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WORK EXPERIENCE

Security Researcher · Internship   **Aug 2024 - Nov 2024**
Indian Institute of Technology   *Jammu*

- Created Vulnerable Windows and Linux Machines.
- Worked on creating an Attack-Defense style CTF Infrastructure.

CERTIFICATION AND AWARDS

- TCM Security - Practical Network Penetration Tester (PNPT)   December 2024
- Offsec - Offensive Security Exploit Developer (OSED)   December 2023
- Hack-A-Mine CTF Winner   October 2023
- Embedded Security CTF RunnerUp   December 2022
- Peaked rank 7 all over India on CTFtime   December 2022
- Learn Python and Ethical Hacking from Scratch - Zsecurity   January 2020
- Learn Ethical Hacking from Scratch - Zsecurity   March 2019

SKILLS

Programming	C, C++, Python, Golang
Cyber Security	Exploit Development, Malware Analysis, Penetration Testing, Reverse Engineering
Other	Github, Linux
Languages	English, Hindi, Marathi, German (beginner)

PROJECTS

CutterMCP   **April 2025**
- CutterMCP is an Model Context Protocol server for allowing LLMs to autonomously reverse engineer applications.
- It exposes numerous tools from core Cutter functionality to MCP clients.

VACDES   **Feb 2025**
- A Windows Kernel level CS2 Gameplay Enhancer(for educational purposes).
- This project was created to learn more about Windows Kernel Drivers and Exploitation.

OSED Badge   **January 2025**
- Created a PCB badge that could be worn at conferences.
- Contains an integrated NFC tag to share information wirelessly.

ByeBOOT   **April 2023**
- Created an open-source version of KonBoot.
- Can be used to reset/bypass forgotten Linux passwords.

CTF Writeups Dump   **January 2021**
- Quite a lot of my CTF write-ups.
- Thousands of scripts and exploit techniques.

Talks and Workshops

Talk on getting started with CTF's   **December 2023**
- Delivered a talk to students and professionals from around the world, discussing how to kickstart their cyber security career using CTFs.

Hands on workshop on CTF's   **October 2023**
- Conducted a workshop in our college teaching basics of CTF's.

Hobbies and Interests

Windows and Linux Exploitation
- Researching in the field of OS Security.
- Attacking and exploiting Memory Corruption Vulnerabilities.
- Bypassing Security Mitagations like DEP,ASLR..etc
- Writing Custom Shellcode.

Web App Pentesting
- Attacking and exploiting vulnerable web applications.
- Deep understanding of OWASP top 10.

Hardware Security
- Exploring Side Channel, Fault Injection Attacks.
- Exploring on breaking cryptographic algorithms using hardware attacks.

Education

B.Tech CSE w/s Cyber Security   **Present**
SRM Institute of Science and Technology

CGPA: 8.81

HSC   **May 2021**
Tuli Public School

Percentage: 92%

SSC   **May 2019**
Podar Internationl School

Percentage: 92%