Akshit **Singh**

Reverse Engineer*/Android Security Researcher*

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ABOUT

Pre-Final year at IIT Roorkee. Aspiring low-level developer and cybersecurity enthusiast with experience in the field of Android security , reverse engineering and malware internals.

SKILLS

Python	Rust Development	Malware Internals
Web Pentesting	Kernel Exploitation	Reverse Engineering
C/C++ Development	Windows Internals	Operating Systems
Android Security	CyberSecurity	IoT/Hardware Security
Windows Kernel Development	Game Security	

EXPERIENCE

Android Security Research Intern

Forensics Cybertech Machines   **Mar 2024- May 2024**

- Security research on Android system exploits and proof of concepts of various vulnerabilities in the Android kernel as well as Android applications.
- Working on the emulation of the exploits in Android devices and gaining privileged information of the administrator using privilege escalation techniques.

EDUCATION

Bachelors of Technology, IIT Roorkee

Majors: Electrical Engineering

Bachelors of Technology, NSUT Delhi

Majors: Computer Science Engineering

DAV Public School, New Delhi

Completed High School Education

EXTRACURRICULAR

Reverse Engineer, InfoSecIITR

https://infoseciitr.in/

- InfoSecIITR is a team of cyberSecurity enthusiasts at IIT Roorkee, and is one of the top 10 CTF teams globally,working towards promotion of cybersecurity throughout the country.
- Participation in global CTFs.
- Conducting CTFs and lectures to promote Information Security.

PROJECTS

Modder.exe {C++, Windows API, Assembly programming}

https://github.com/it4ch1-007/Modder_exe

- A C++ based Windows game reversing tool that includes features like DLL hooking, Memory scanning, Pattern instruction scanning, Disassembling, Debugging, Call logging and Chat proxying using packet capturing.
- Also uses modern techniques to evade the Anti-Cheat system in various games.

Cobra {Rust, Windows Internals, Malware Analysis, Powershell, Batch, AV evasion}

https://github.com/it4ch1-007/Cobra

- A Rust based C2 software that evades various Windows security mechanisms to take control of the system.
- Developed not to trigger any AV checks and exploit the basic mechanisms of the Windows susbsystem with modern Persistence, Credentials, Lateral Movement techniques .
- Uses Powershell and Batch scripting to bypass UAC checks and implement new AV evasion techniques like Custom crypto algorithms, PEB Traversal debug checks , WiFi Parsing, APC Queue injection, Code injection, DLL injection , API hashing and more.

ACHIEVEMENTS

- Won Times of India online National English Debate Contest.
- Got a book published by Children's Book Trust Of India.
- Qualified for final round of TrustLabs CTF held at IIT Bombay
- 2nd position at Scythe CTF , held at Cognizance IIT Roorkee
- 1st globally in VishwaCTF 2024
- 1st globally in JerseyCTF 2024.
- 3rd globally in PragyanCTF 2024, organised by NIT Trichy
- 5th globally in UMASSCTF 2024
- Qualified for HackDay CTF Finals 2024, held at ESIEE,Paris,France
- 6th globally in b0il3rsCTF 2024
- 9th globally in HackDay Qualifications 2023

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