

Udit Chhipa

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EDUCATION

Jaipur National University

B.Tech, Computer Science (Cybersecurity)

Jaipur, India

2023 - 2027

EXPERIENCE

Rajasthan Police - Cyber Crime Branch

Cyber Security Research Intern

Apr 2024 - Present

Jaipur

- Built LLM-powered agentic investigation systems and VLM-based weapon detection using domain-specific datasets.
- Designed ML models for cybercrime detection, Telegram OSINT, and criminal network analysis pipelines.
- Presented research prototypes to Cyber Crime teams and received a Letter of Recommendation from Rajasthan Police HQ.

ShadowFox - Cybersecurity Training & Services

Cyber Security Intern

Jul - Aug 2025

Remote

- Performed web application vulnerability assessments using Burp Suite, Nessus, and Nmap; tested REST API auth flaws.
- Conducted OSINT reconnaissance, Wireshark traffic analysis, and incident reporting for exposed assets.

PROJECTS

NEBULA - Threat Emulation Research

Rust, Windows API FFI

2025 - Present

- Researched 11+ AV/EDR evasion techniques and 26+ sandbox/VM detection checks in a threat-emulation implant.
- Studied multi-channel C2 fallback design for defensive research and detection-gap analysis.

BLACKOUT-WINDOWS - C2 Architecture Research

Python, C#, Windows Internals

2024 - Present

- Researched syscall resolution, process hollowing, BYOVD discovery, and steganographic concealment in Windows environments.

PHANTOM-INTEL - Threat Intelligence Platform

Python, OSINT, AI/ML

2024 - 2025

- Automated dark-web monitoring, BIN leak detection, MITRE ATT&CK attribution, and geopolitical threat mapping across 190+ countries.

TECHNICAL SKILLS

Languages: C, C++, Python, Rust

Security: C2 development, implant engineering, process injection, syscall research, UAC bypass

Detection research: AV/EDR evasion, AMSI/ETW patching, sleep obfuscation, stack spoofing, binary obfuscation

Threat intel & OSINT: MITRE ATT&CK, dark web monitoring, Telegram OSINT, intelligence aggregation

AI security: LLM workflows, VLM systems, ML malware detection, agentic AI

Tools: Burp Suite, Wireshark, Nmap, Nessus, Metasploit, Ghidra, Docker, Linux

ACHIEVEMENTS

- Letter of Recommendation from Rajasthan Police HQ for AI-assisted cybercrime investigation research.
- 6th rank in university-wide CTF.