

# Niraj Sharma

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## EDUCATION

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- **UIT, Karnavati University** Ahmedabad, India  
*Bachelor of Science - Computer Science; GPA: 7.8* August 2022 - Present  
*Courses: Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases, LLM*

## SKILLS SUMMARY

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- **Languages:** Python, C, C++, Assembly, SQL, Bash, Powershell, Solidity
- **Tools:** Metasploit, WinDbg, IDA, Ghidra, SysInternals, Docker, GIT, PostgreSQL, Kicad, Fusion 360
- **Platforms:** Linux, Web, Windows, Arduino, Raspberry, AWS, GCP, IBM Cloud
- **Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

## EXPERIENCE

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- **Penetration Testing - Karnavati University** OnSite  
*Student Developer (Full-time)* January 2025 - March 2025
  - **Conducted Blackbox Testing on University Network:** Extensively testing of the web interface.
  - **Vulnerability Patching:** Patched the vulnerabilities found during testing
  - **Documentation:** Documented vulnerabilities and advised on prevention.

## PROJECTS

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- **GreenCertify - Blockchain Based Certification Platform (BlockChain, ERC721, IPFS, Batch Process, APIs):** (Work in progress) Developed and managed a blockchain-based platform for issuing soulbound certificates, ensuring secure, verifiable, and tamper-proof digital credentials. Tech: TypeScript, Solidity, NodeJS, ERC721, Pinata (November '24)
- **TinyOS (Operating System, Low-Level Programming):** (Work in progress) Developing a basic operating system kernel from scratch using C and x86 Assembly. Tech: C, C++, Assembly, Make, qemu (April '25)
- **Obfuscation - Deobfuscation Toolkit (RSA, steganography):** Developing a command-line toolkit for obfuscation and deobfuscation, enhancing malware analysis and development by enabling multi-layered code transformation and reverse engineering insights. Tech: Python, GCC, LLVM (January '25)
- **Binary Analysis Toolkit (Binary Analysis, CLI, VirusTotal, Hashes, Strings, YARA):** Developed a Binary/Malware Analysis toolkit on CLI. It provides information like AI-Powered Sting Classifier, Assemble Decompiler, Multiple Hashes and YARA-rules generator. Tech: Python, APIs (December '24)

## ARTICLES

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- **Malware Analysis: RemcosRAT (Trojan, Stealer, RCE):** A detailed analysis of the malware. Studies Evasion techniques and Persistence Maintainance. Tech: Ghidra, x64dbg, Windows Internal tools (October '24)
- **Malware Analysis: NetSupport (Windows, C2, Trojan, Delivery):** Article provides delivery Mechanism, IOC's and detailed analysis of the binary and payloads. Tech: Ghidra, WireShark, DetectItEasy, ProcMon. (September '22)
- **Advanced Hardware Fuzzing (AFL++, Fuzzing, Injections):** Wrote an article on Fuzzing hardwares and kernels to find crashes and vulnerabilities. (September '24)

## HONORS AND AWARDS

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- Winner at in-house CTF at University level - August, 2023
- Winner MUN - December, 2024
- Solved 60+ Machines on HackTheBox - May, 2022 - Present]

## VOLUNTEER EXPERIENCE

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- **Society President at University CyberSecurity Club** Ahmedabad, India  
*Conducted online and offline technical impacting over 100 students.* Jan 2019 - Present
- **Event Organizer at Model United Nations** Ahmedabad, India  
*Organized event Portfolio Distribution and conducted the Event for over 50+ students* Jan 2024
- **Speaker Session at University on Security** Ahmedabad, India  
*Delivered a lecture on Malware Analysis and development to over 70+ students* Jan 2024