

Neeraj Singh

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Education

Lovely Professional University

Aug 2020 - Sep 2024

B.Tech. in Computer Science and Engineering (CyberSecurity)

CGPA: 8.29

Relevant Coursework: Object Oriented Programming, Databases, Discrete Maths, Data Structures and Algorithms, Operating Systems, Computer Networks, CyberSecurity Essentials, Penetration Testing, Data Structures and Algorithms

Skills

Languages: : Python, Java, C++, JavaScript, HTML, CSS, Bash Script

Technologies & Tools: Metasploit, BurpSuite, Nmap, JohnTheRipper, WireShark, Radare2, Hydra, Aircrack-ng, SQLMap, Nikto, W3af, Nessus, OpenVAS, Volatility, Autopsy, Ghidra, IDA Pro

Cybersecurity Skills: Vulnerability Assessment(VAPT), Network Security, Cryptography, Digital Forensics, CTF, Ethical Hacking

Cloud/Databases: MongoDB, Firebase, MySQL, DigitalOcean

Work Experience

Frugal Testing , Hyderabad

Oct 2023 - Sep 2024

SDET Intern

- Developed and executed automated test scripts using Selenium and TestNG for web and API testing in Java, increasing test coverage by 40%.
- Implemented CI/CD pipelines with GitHub Actions, reducing deployment time by 30% through automation.
- Conducted API automation testing using Postman and Rest Assured, applying robust validation techniques, improving test reliability by 50%.
- Identified and documented software defects using JIRA and Trello, leading to a 25% reduction in bug resolution.
- Integrated Allure for detailed test reporting and automated notifications on Slack, using custom reporting templates, enhancing reporting efficiency by 25% time.
- Jenkins, JIRA, Trello, Allure, Java, Selenium, Appium, Jmeter

Gurugram Police

Jun 2021 - Jul 2021

Security Intern

- Tackled real-world problem statements provided by the cyber police.
- Hands-on experience in domains including Bug Hunting, Digital Forensics, OSINT, Cyber Laws.
- Conducted penetration testing on networks and applications, using tools like BurpSuite, Nmap, and Metasploit to discover and exploit security gaps.
- Improved documentation practices for vulnerability management and reporting, contributing to enhanced clarity and traceability of security incidents.

Certifications

- **Certified Ethical Hacker (CEH) Practical**
 - Certified in the CEH Practical with score of 200/200 , further expanding expertise in ethical hacking techniques and real-world security testing.
- **eLearnSecurity Junior Penetration Tester**
 - Completed a 48-hour practical certification involving penetration testing of a network consisting of 5 labs, demonstrating hands-on expertise in identifying and exploiting vulnerabilities.
 - Performed network vulnerability assessments, web application security testing, and exploitation of identified vulnerabilities.
- **Jr. Penetration Tester by TryHackMe**
 - Completed a structured learning path on penetration testing, including hands-on labs and challenges in different attack vectors.
 - Gained practical experience in reconnaissance, vulnerability identification, and exploitation techniques through various real-world simulation environments.
- **Ranked in the top 1% on TryHackMe**

Personal Projects

- **Whats My Server Doing?** : Crafted an advanced tool for real-time server performance and log monitoring.
 - Backend: Engineered with Go, efficiently tracks server RAM usage, CPU usage, and logs, delivering detailed insights into server performance, optimized for Linux systems.
 - Developed a multi-platform application using Tauri and Shadcn components.
 - Seamlessly tracks multiple servers, views comprehensive statistics, and monitors logs.
 - Technologies Used: Go, Tauri, Shadcn, Linux.
- **Ram Dump Tool** : Designed a Memory Dumping Forensics Tool to extract volatile memory (RAM) contents.
 - Version 1 (Python): Implements memory dumping with encryption and tamper detection to secure sensitive data and maintain data integrity.
 - Version 2 (Rust + Tauri): Enhances user experience with an improved GUI, simplifying memory dumping processes.
 - Technologies Used: Python, Rust, React, Winpmem, MongoDB.
- **OneClickRun** : A multifunctional tool offering features like Firefox, Jellyfin, aria2, and more in a single script.
 - Ready-to-use script combining multiple tasks like downloading and managing servers with a single click.
 - **My Contribution**: Added Hashcat functionality for easy online cracking using Google Colab notebook resources.
 - Technologies Used: Shell Script, Hashcat, Colab, Aria2, Firefox.