

Chanchal Sharma

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[GitHub](#) | [LinkedIn](#) / [Portfolio](#)

Summary

Aspiring SOC analyst with a strong passion for cybersecurity and a solid foundation in security monitoring, threat analysis, and incident response. Proficient in detecting and analyzing security threats, with hands-on knowledge of various cybersecurity tools. Passionate about learning and mastering new tools and techniques to stay ahead in the evolving cybersecurity landscape. Dedicated to continuous learning and committed to achieving security excellence.

Project Work

Port Scanner

Aug 30 – Nov 30

(GUI- Based Port Scanner)

- Developed a high-performance, GUI-based network port scanning application using Python, capable of scanning 5,000 ports within a minute by leveraging the threading library, significantly improving scan efficiency and speed.
- Enhanced the application's usability by implementing an intuitive graphical interface, providing users with a comprehensive network security overview and easy access to scan results.
- Designed the tool to rapidly identify open and closed ports, offering valuable insights for network vulnerability assessments and security audits.
- Technologies used: Python, threading, GUI library (Tkinter).

Slowloris Attack Detection and Prevention

Nov 20- Feb 22

(Detection and Prevention of Slowloris Attack)

- Developed a comprehensive detection and prevention system to mitigate Slowloris attacks using a combination of Apache2 server, MSF console, Wireshark, UFW, and Python libraries (os, pandas), improving system security and resilience against DoS attacks.
- Facilitated collaborative analysis and testing through Google Collab, enabling efficient team collaboration and streamlined attack simulations, which improved detection accuracy.
- Technologies used: Apache2, MSF console, Wireshark, UFW, Python (os, pandas).

Packet Filtering Firewall

Mar 15 – Aug 10

(Firewall Application)

- Developed a comprehensive firewall-based application using Python, HTML, CSS, and JavaScript, providing robust filtering and monitoring of incoming and outgoing network traffic based on predefined security rules.
- Enhanced network security by implementing advanced traffic analysis and rule-based filtering mechanisms to ensure secure communication and data transfer.
- Integrated a user-friendly interface for managing firewall rules and viewing real-time traffic statistics, enabling seamless control and monitoring of network activities.
- Technologies used: Python, HTML, CSS, JavaScript.

Education

VIT (Vellore Institute of Technology) Bhopal

Aug 2020 - Oct 2025

Integrated M.Tech in CSE Specialization in Cyber Security and Digital Forensic

CGPA: 8.76/10

Relevant Coursework: Object Oriented Programming, Databases, Discrete Maths, Data Structures and Algorithms, Operating Systems, Computer Networks, Ethical Hacking, Cyber Crimes and Laws, Network and System Security, Cloud Security, Web Security, Penetration Testing, Machine Learning in Cyber Security, Database Security.

Work Experience

CodSoft (Web Developer)

(Sep 09- Nov 15)

- Led the development and deployment of full-stack applications using the MERN stack, enhancing functionality and performance. Engineered and implemented modern design techniques for an Event Management Tool, significantly improving user interface and user experience. Worked as a full-stack developer trainee in CodSoft. Involvement in different.

Awards And Certification

- Awarded by Collector for securing 2nd rank in district in 12th (May 2020)
- Awarded the Support the Advancement of Rural Students (STARS) scholarship by VIT Bhopal, May 20
- Cyber Security Fundamentals by Vityarthi.
- Ethnus MERN Internship Certification, Nov 2023
- Solved more than 500 problems on Leetcode | Global Rank (105,675)
- Published an article in GFG related to Bulma Strategy.