

# Rohit Bagal

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## Profile Summary

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Beginner Cybersecurity & Ethical Hacking enthusiast with strong interest in penetration testing, web security, and network security, equipped with hands-on experience using industry-standard tools. Experienced in network traffic analysis, vulnerability assessment, and intrusion detection using tools like Nmap, Wireshark, Burp Suite, and Metasploit. Proven ability to learn quickly, work independently on security projects, and demonstrate leadership as Cybersecurity Co-lead at Genesis Coding Club.

## Technical Skills

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- **Languages:** Java and Python(Fundamentals), Bash Scripting
- **Web Technologies:** HTML, CSS, JavaScript
- **Security Tools:** Wireshark, Burp Suite, Nmap, Metasploit, Wappalyzer, Kali Linux, Linux
- **Version Control & Tools:** Git, GitHub, VS Code

## Projects

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### Intrusion Detection System (IDS) — Python, Scapy, VS Code 2025

- Developed a network-based intrusion detection system that monitors real-time network traffic and identifies unusual packets sent to specific IP addresses.
- Implemented packet capturing and analysis using Python and Scapy library to detect potential network scanning and attack patterns.
- Configured alerting system to log suspicious activities and generate reports for security analysis.
- Tested the IDS against various attack scenarios including port scanning.

### Python Vulnerability Scanner — Python, Sockets, Requests, VS Code 2025

- Created a command-line vulnerability scanner that performs port scanning on target IP addresses to identify open ports and potential security weaknesses.
- Utilized Python's socket programming and requests library to automate vulnerability detection and port enumeration.
- Developed understanding of reconnaissance techniques used by attackers to identify open services and exploit common vulnerabilities.
- Implemented error handling and reporting features to provide detailed scan results for security assessment.
- Added multi-threading capability to improve scanning speed and efficiency for multiple target hosts.
- Integrated basic service detection to identify running services on open ports and potential CVE vulnerabilities.

## Education

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### Late G.N. Sapkal College of Engineering

*Bachelor of Engineering in Computer Engineering*

Nashik, India

Pursuing

- Average Overall CGPA: 8.74
- Relevant Coursework: Cybersecurity and Ethical Hacking

## Certifications

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- Cyber Security & Ethical Hacking Course – Udemy
- Java with DSA – Apna College

## Achievements

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- Student Representative of Computer Engineering Department – 2024
- Genesis Coding Club – Cybersecurity Co-lead – 2025
- Maintained a consistent CGPA across all semesters.