

Mayank Bhardwaj

Presenting myself as a proficient cybersecurity and forensic security enthusiast, with 3+ years of extensive expertise in security compliance, pentesting, and debugging. My unwavering passion for staying at the forefront of cybersecurity fuels my innovative mindset, continuously leading me to develop small, impactful security tools to tackle complex challenges. I am wholeheartedly committed to creating a safer digital landscape, making me an invaluable asset in today's ever-evolving cyber world. Moreover, I thrive on exploring cutting-edge fields like IoT security & Prompt engineering.

WORK EXPERIENCE

Intern/Trainee

June 2023 - Present

Cyber Cell, Dehradun, India

- Conducted real-time forensics and successfully recovered digital footprints in the aftermath of cybercrime incidents.
- Led an ISO 27001 audit within the Special Task Force Department and Cyber Cell, ensuring compliance with industry standards and best practices.
- Developed custom tools for the Police Investigation Team, enhancing their efficiency in digital evidence collection and analysis.
- Demonstrated expertise in information gathering and security compliance techniques to identify and address network vulnerabilities, fortifying the organization's defenses against potential threats.
- Installed and configured SIEM, IPS, and IDS systems in the monitoring room, bolstering network security and enabling proactive threat detection and prevention.
- Leveraged open-source technologies and multiple scripting languages, including Python, to create a powerful vulnerability analysis tool, providing valuable insights into potential weaknesses and areas for improvement.

Intern

June 2023 - Present

HERE Technology.

- Proficiently employed web collaborative tools, such as Slack and Trello, to streamline team communication and project management processes.
- Leveraged Python to efficiently scrape and extract various attributes from large company datasets, showcasing strong data manipulation skills.
- Successfully implemented an innovative automation process to fetch addresses and verify their latitude and longitude using geocode, resulting in an impressive 80% reduction in manual effort.
- Submitted all tasks in GeoJSON format, ensuring seamless data integration and accuracy, thus contributing to a streamlined and efficient data repository.

Intern

June 2022 - July 2022

LIVE100x.

- Managed a process re-engineering project to improve and consolidate end-to-end service processes; restructured communication flow among 10 members and cut down paperwork by 75%.
- Created specialized LinkedIn job profile scraping tools, enabling efficient data extraction for talent acquisition and market analysis purposes..
- Successfully built a robust bulk email-sending server from scratch, facilitating targeted and personalized email campaigns to reach a wider audience.
- Scripted highly effective tool using Scrapy, BeautifulSoup, and Geocode to automate data extraction from websites, optimizing data collection procedures.
- Spearheaded the creation of an IP rotation tool, bolstering platform security and ensuring anonymity during data transmission for enhanced protection against potential threats..

PROJECTS

FTPinter - FTP client-server application for easy file transfer local-global.

- Engineered a high-performance Graphical User Interface based tool for my Raspberry Pi 4. The purpose of this tool is to enable seamless transfer of files between my windows and Linux os. .

StegoX - Hide secret text under Images with SHA256 support.

- This is a Python program that allows the user to hide a secret text message inside an image using the least significant bit (LSB) technique. The program uses the stegano library to perform the hiding and revealing of the message.

Load-js - React application to improve its performance and scalability.

- ClusterLoad is a powerful and efficient load balancing tool for Node.js applications. It uses Node.js cluster module to distribute incoming traffic across multiple worker processes, providing improved performance, reliability and scalability for your applications.

Warflight- Aerial wi-fi reconnaissance.

- IOT Aerial Wi-Fi reconnaissance involves using aircraft or drones with Wi-Fi detection equipment to scan and map out wireless networks in a given area.
- The purpose of this reconnaissance can vary, from identifying vulnerabilities in Wi-Fi networks to gathering intelligence on network activity.

CONTACT

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SKILLS

- JAVA
- HTML & CSS
- Python (Basics)
- Bash
- PHP
- Nginx
- Apache

TOOLS

- Prompt engineering.
- Wazuh (SIEM)
- Suricata (IPS/IDS)
- Linux (Debian/Arch)
- Proxy Server
- IoT Devices (Pi)
- GitHub
- EMBA
- Nessus
- Snort
- WordPress
- Hostinger
- AWS

EDUCATION

University of Petroleum & Energy Studies.

B. Tech CSE with Cyber Security & Forensics
July 2020 - June 2024

Saint Xavier High School.

July 2017 - June 2019.

CERTIFICATIONS

- Introduction to Dark Web, Anonymity and Cryptocurrency.
- SQL Injection Attacks.
- Network Defense Essentials (NDE).
- Ethical Hacking Essentials (EHE).

RESEARCH

- IoT Firmware hacking using different techniques in static and dynamic way and its mitigation.
- Breaking down the Malware.