

# Suhana Mishra

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## Objective

I am a **cybersecurity student** with experience in **hands-on projects involving threat detection and vulnerability assessment**. I have worked on **deploying and testing honeypot-based security systems** to achieve **real-time intrusion detection and attack pattern analysis**. I am a curious person and eager to learn and contribute to protecting systems and data from cyber threats.

## Projects

### Threat Intelligence Platform on Cloud

- Developed a cloud-hosted honeypot using **React.js, Node.js, MongoDB**, and **Cowrie Honeypot** for real-time threat intelligence visualization.
- Integrated APIs (OTX, AbuseIPDB) with caching to manage rate limits.
- Built an interactive dashboard to track attacker IPs, login attempts, and behavior patterns.

### Threat Detection Through Honeypot Data

- Deployed **Cowrie (SSH)** and a **custom honeypot (HTTP/RTSP/ONVIF)** to emulate vulnerable NVR systems.
- Containerized honeypots with **Docker** and integrated logs into the **ELK stack (Elasticsearch, Logstash, Kibana)** for visualization.
- Simulated attacks using **Hydra, Nmap, and Nikto** to test detection capabilities.

### HID Device Emulation for System Exploitation

- Programmed an Arduino to emulate a Human Interface Device (HID), delivering keystrokes to a target device to simulate a **keystroke injection** attack.
- Leveraged tools like Metasploit and HoaxShell to establish a reverse connection, enabling remote control of the target device.

### Cisco Virtual Internship Program 2024

- Developed a network security solution by creating policies and **ACLs** to address campus resource misuse by restricting access to irrelevant websites, ensuring compliance with campus usage guidelines on Cisco Packet Tracer
- Completed three cisco certifications for internship completion- Introduction to Cyber Security, Cyber Security Essentials, Introduction to Packet Tracer

## Education

**B.Tech Cybersecurity, NIIT University**

**2022 to 2026**

7.75

**XII, St Andrews Scots Sr Sec School (CBSE)**

**2022**

**X, St Andrews Scots Sr Sec School (CBSE)**

**2020**

## Skills

**Programming & Scripting:** Python, Shell Scripting, Basics of JS, Node JS and React JS

**Cybersecurity Tools:** Burp Suite, Wireshark, Nmap, Wazuh, etc.

**Reconnaissance & Scanning:** Footprinting, Network Scanning, Web Application Scanning

## Positions of Responsibility

### Volunteer & Lead - Public Relations (*Ingenuity*, Dec 2022 - April 2024)

- Coordinated outreach with clubs across colleges; maintained contact records for follow-up.
- Supervised a team of juniors, delegating tasks and ensuring timely execution.

### Vice-Captain & Captain-White House (Jan 2024- Dec 2025)

- Organized inter-house competitions and motivated team members for active participation.
- Represented the house in cultural and sports events, fostering teamwork and discipline.

### NSS Volunteer

- Participated in various community service initiatives organized by NSS.
- Contributed to projects aimed at addressing social issues and supporting underprivileged communities.

### Contingent Mentor (July - August2023)

- Mentored a group of first-year students, ensuring participation in activities and guiding them in adapting to college life.