

Suchit Reddi

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OBJECTIVE

Acquiring skills in cybersecurity. Intrigued by OSINT, IoT security, Automation, Forensics, and Investigations.

SKILLS

Cybersecurity: Network, and Web Application Security, IoT Security, OSINT, [Automation](#), Data sanitization.

Tools: Metasploit, Aircrack-ng, Nmap, Wireshark, Nessus, Autopsy, Maltego, Hashcat, etc.

Operating Systems: Kali Linux, Unix, Windows (XP, 8, 10), Raspberry Pi, Virtual Machines, Docker, iOS (Learning).

Languages: English (Professional), Hindi (Limited), French (Learning), Telugu (Native), Morse.

EDUCATION

B. Tech (Major - ECE, Minor - CSE) - 6.9/10 CGPA. Shiv Nadar Institute of Eminence, Delhi NCR, India **2020 - 2024**

Intermediate (12th) - 10/10 CGPA. Shri Venkateshwara Jr. College, Visakhapatnam, India **2018 - 2020**

High School (10th) - 10/10 CGPA. Sri Chaitanya EM School, Visakhapatnam, India **2017 - 2018**

EXPERIENCE

[Summer Intern](#) - Irdeto, Greater Noida, Delhi

May 2023 - Aug 2023

- Worked on **Automation** for Set-top box testing. Created over 50 flows requiring problem-solving and critical thinking.
- Migrated scripts from Storm to Witbe. Analysed scripts in Python before converting to Witbe flows.

PROJECTS ([Link](#))

[Cyber Sentinel](#)

- Developed a web app to increase cyber awareness among developers using **PHP**, **HTML**, **CSS**, and **MySQL** databases.
- Introduced vulnerabilities, steps for exploitation, and how to patch each vulnerability.
- Increased security of users running such intentionally vulnerable applications by containerization.

[Memory Wipe \(In Progress\)](#)

- Researched secure deletion and verification techniques for disk storage in IoT devices, primarily flash storage.
- Converting theoretical research into practical application by creating an automated shell script tool usable by public.

[IoT Projects](#)

Making Raspberry Pi available over open internet for automated hosting of services with high uptimes.

-> [Intruder Capture System](#): Intruder image is captured and transferred over MQTT in case of authentication failure.

-> [Smart Drop](#): A smart irrigation system built with STM32 microcontroller, rain sensor, soil sensor, and relay.

-> [Fileserver](#): Created a sort of private cloud for remotely accessing files from an SSD connected to Raspberry Pi.

[Self-Hosted Website \(In Progress\)](#)

- Designed a website with functional buttons, embedded posts, links, videos, and background images.
- Pursuing self-hosting from Raspberry Pi while dodging various networking hurdles.

[Voice Spoofing Detection](#)

- Spearheaded a group of 3 and engineered a spoofing detection model with 800 lines of **Python** and **MATLAB** codes.
- Enhanced model using one-class classification, making it capable of 3rd position, with a 2.19% Equal Error Rate.

[Key Loggers](#)

- Authored a review paper on detecting and countering threats from key and touch loggers after reading 6 IEEE papers.
- Explained internal functions, uses/misuses, and methods for countering keyloggers.

[Text Editor](#)

- Implemented various objectives in a 300-line **Java** Swings text editor program in 1 day, overcoming strict deadlines.

HONORS ([Link](#))

- Selected as a mentor in IIT Kharagpur's open-source event [KWOC 2023](#).
- RISE 2023 Research Internship (IIT Jammu) on "Security of Smart Devices" under Dr. Gaurav Varshney - **Not Attended**
- SPRINGEX-23 Spring Internship Program (National Maritime Foundation (NMF)) - **Not Attended**
- Conferences - 2nd National Conference on Cyber Investigation and Digital Forensics by CBI
- Google Cybersecurity certificate (ongoing), [Cybersecurity Analyst](#) certification from IBM

EXTRA-CURRICULAR

Technology: Competing in cyber [CTFs](#) (Jeopardy - OSINT, Forensics, Web) and typing races (70WPM).

Writing: Publishing [content](#) for personal [website](#) and LinkedIn viewed by over 2,500 people worldwide.