**Suchit Reddi**

Logo

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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](https://suchitreddi.github.io/Work/automation.html), 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)** - Shiv Nadar Institute of Eminence, Delhi NCR, India **2020 - 2024**

**Diploma Equivalent (12th)** - Shri Venkateshwara Jr. College,Visakhapatnam, India **2018 - 2020**

**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**](https://suchitreddi.github.io/Work/)\_

[**Cyber Sentinel**](https://suchitreddi.github.io/cybersentinel/cybersentinel.html)

• 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**](https://suchitreddi.github.io/Work/memory_forensics.html) **(In Progress)**

• Researched secure deletion and verification techniques for disk storage in to 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**](https://suchitreddi.github.io/ics/): Intruder image is captured and transferred over MQTT in case of authentication failure.

-> [**Smart Drop**](https://suchitreddi.github.io/Work/drop.html): A smart irrigation system built with STM32 microcontroller, rain sensor, soil sensor, and relay.

-> [**Fileserver**](https://suchitreddi.github.io/Work/self_fileserver.html): Created a sort of private cloud for remotely accessing files from an SSD connected to Raspberry Pi.

[**Self-Hosted Website**](https://suchitreddi.github.io/Work/website.html) **(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**](https://suchitreddi.github.io/Work/voice.html)

• 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**](https://suchitreddi.github.io/Work/keyloggers.html)

• 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**](https://suchitreddi.github.io/Work/editor.html)

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

[**Coursera Downloader**](https://suchitreddi.github.io/Work/coursera-dl.html)

• Debugged an outdated 300-line **Python** script for automated video downloads from Coursera.

**HONORS** ([Link](https://suchitreddi.github.io/Honors/))\_

• Selected as a mentor in IIT Kharagpur’s open-source event [KWoC 2023](https://kwoc.kossiitkgp.org/).

• 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

• [Cybersecurity Analyst](https://suchitreddi.github.io/Honors/certs/IBM.html) certification from IBM

**EXTRA-CURRICULAR** \_

**Technology:** Competing in cyber [CTFs](https://suchitreddi.github.io/Honors/ctf/index.html) (Jeopardy - OSINT, Forensics, Web) and typing races (70WPM).

**Writing:** Publishing [content](https://suchitreddi.github.io/Work/articles.html) for personal [website](https://suchitreddi.github.io/Work/website.html) and LinkedIn viewed by over 2,500 people worldwide.