Suchit Reddi

✉ *rs521@snu.edu.in* | 📞 +91 9030650858 | 🌐 *suchitreddi.github.io* | 🔗 *linkedin.com/in/suchitreddi/* | 🐙 *github.com/SuchitReddi*

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) - 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

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 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**: 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.

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• Debugged an outdated 300-line **Python** script for automated video downloads from Coursera.

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
• 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.