Suchit Reddi

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OBJECTIVE

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

SKILLS

Cybersecurity: Network Security, IoT Security, Web Pentesting, OSINT, Automation scripts, SIEM (IBM QRadar).
Tools: Metasploit, Aircrack-ng, Nmap, Wireshark, Burp Suite, 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   **Expected 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** scripts for Set-top box testing.
• Migrated scripts from Storm to Witbe. Analysed scripts in Python before converting into Witbe flows.
• Created over 50 flows requiring problem-solving ability and critical thinking.

PROJECTS

IoT Projects
Making Raspberry Pi available over open internet for automated hosting of services with high uptimes.
 -> **Fileserver**: Created a sort of private cloud for remotely accessing files from an SSD connected to Raspberry Pi.
 -> **Website**: Used Ngrok and Nginx to host a website on Pi. Working on site's availability behind corporate firewalls.
 -> **Smart Drop**: Put together an irrigation system with STM32 microcontroller, rain sensor, soil sensor, and relay.
Forensic Issues in IoT (In Progress)
• Researching secure deletion techniques and verification method for storage devices connected to IoT devices.
• Preparing an interactive automated script to convert theoretical research into practically useful tool to general users
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.
Cyber Sentinel (In Progress)
• Developed a web app to increase cyber awareness among developers using **PHP**, **HTML**, **CSS,** and **MySQL** databases.
• Introduced users to each attack, with steps on replication and how to patch each vulnerability.
• Increased security of users running such intentionally vulnerable applications by containerization.
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)

• 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**
• Conference Attendee (2nd National Conference on Cyber Investigation and Digital Forensics, CBI, Delhi, India)
• 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.