

Kunal Walavalkar

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SKILLS

Reverse Engineering — GNU Debugger, Cutter, Ghidra, Flare VM, REMnux

Penetration Testing — Burpsuite, Nmap, Metasploit, Nessus, OpenVAS, Windows, Linux

Secure Code Review — Semgrep, Manual Secure code review, SAST, DAST.

Programming — Python, Assembly, C

Digital Forensics — Autopsy, FTK Imager, Wireshark

PROFESSIONAL EXPERIENCE

Digital Forensics Intern (Cyber Secured India)

March 2023 - July 2023

- Learnt networking fundamentals.
- Performed web application penetration tests using Burpsuite.
- Used Autopsy for data recovery, analysis of evidence and reporting.

PROJECTS

O.S.S.O.C 🔗

Proof of Concept for an open-source Security Operations Centre which has automation capabilities.

- Set up an endpoint on a Windows using Wazuh host to detect incidents and respond to them.
- Leveraged TheHive's case management to store IOC and classify incident.
- Used Cortex analyzers to query relevant threat intelligence feeds with the stored IOC.
- Created an automation workflow within Shuffle that performs all of these steps without the need of human intervention.

D|Cipher 🔗

Cryptography toolkit that allows users to encode and decode their text using an algorithm of their choice.

- Includes five different cryptography algorithms.

Hexplorer 🔗

Command-Line hexdump utility written in C.

- Allows developers and engineers to examine the raw bytes of a file or data stream.

Write-ups 🔗

Collection of CTF write-ups.

- Includes writeups for: Binary Exploitation, Reverse Engineering, Web Exploitation, Network Forensics, System Forensics

RiSkore 🔗

Calculator to calculate the risk faced by organizations

Risk is calculated based on the following factors suggested by OWASP:

- Threat agent: Skill level, Motive, Opportunity, Size of threat actor group.
- Vulnerability: Ease of discovery, Ease of exploit, Awareness, Intrusion Detection.
- Technical impact: Loss of Confidentiality, Loss of Integrity, Loss of Availability, Loss of Availability.
- Business impact: Financial Damage, Reputation Damage, Non-Compliance, Non-Compliance.

CERTIFICATIONS

- eJPTv2 🔗
- ICCA 🔗
- Fortinet NSE 1 🔗
- CNSP 🔗

EDUCATION

2020 – 2024

Bachelors of Engineering in Computer Science with Honors in Cybersecurity
Vidyalankar Institute of Technology

Mumbai, India