






# Kunal Walavalkar

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## SKILLS

<b>Reverse Engineering</b> GNU Debugger, Cutter, Ghidra, Flare VM, REMnux	<b>Penetration Testing</b> Burpsuite, Nmap, Metasploit Framework, Windows, Active Directory, Linux	<b>Secure Code Review</b> Semgrep, Manual Secure code review, SAST, DAST
<b>Programming</b> Python, Assembly, C	<b>Digital Forensics</b> Autopsy, FTK Imager, Wireshark	<b>Vulnerability Assessment</b> OpenVAS, Nessus

## PROFESSIONAL EXPERIENCE

<b>Security Analyst</b> Cyware	March 2025 – present
<ul style="list-style-type: none"><li>Designed and implemented agentic detection engineering workflows that autonomously analyzed threat advisories, TTPs, and IoCs to generate actionable Sigma, YARA, and Snort rules, significantly reducing detection engineering turnaround time.</li><li>Developed an AI-powered agent that maps input technologies to corresponding MITRE ATT&amp;CK TTPs, accelerating threat modeling and enhancing security coverage analysis.</li><li>Developed a YARA-L parser and validation module to ensure syntactic and logical correctness of generated rules, improving deployment reliability and reducing false positives across detection pipelines.</li><li>Developed and optimized internal security automation playbooks to streamline incident response workflows; improved efficiency by enhancing pre-existing playbooks with enrichment logic, deduplication, and threshold tuning.</li></ul>	
<b>Solution Engineer Intern</b> Cyware	September 2024 – March 2025
<ul style="list-style-type: none"><li>Built scalable automation workflows using the AWS ecosystem to transform external threat intelligence into standardized formats, streamlining ingestion and reducing manual processing efforts.</li><li>Delivered over custom integrations with third-party platforms, accelerating product readiness for strategic initiatives and enabling seamless interoperability within the security automation ecosystem.</li><li>Developed advanced playbooks to onboard externally facing assets, detect exposed infrastructure, and identify secondary risk vectors, leading to improved threat visibility and faster incident response.</li><li>Enhanced IOC processing by implementing defanging, deduplication, and automated ingestion mechanisms, reducing noise and improving the quality of threat data ingested into internal systems.</li><li>Collaborated cross-functionally with engineering, product, and QA teams to validate and operationalize automation solutions, ensuring high reliability and alignment with business and operational goals.</li></ul>	
<b>Digital Forensics Intern</b> Cyber Secured India - India	March 2023 – July 2023
<ul style="list-style-type: none"><li>Assisted in analyzing network traffic and protocol flows to support threat detection and improve visibility across infrastructure.</li><li>Performed web application penetration testing using Burp Suite, identifying and reporting critical vulnerabilities to reduce attack surface and enhance application security.</li><li>Conducted digital forensics using Autopsy, recovering key artifacts and generating investigation reports to aid incident response and compliance efforts.</li></ul>	







## PROJECTS

<b>F.O.S.S.O.C - POC for an open-source Security Operations Centre which has automation capabilities.</b> 
<ul style="list-style-type: none"><li>Set up an endpoint on a Windows using Wazuh host to detect incidents and respond to them.</li><li>Leveraged TheHive's case management to store IOC and classify incident.</li><li>Used Cortex analyzers to query relevant threat intelligence feeds with the stored IOC.</li><li>Created an automation workflow within Shuffle that performs all of these steps without the need of human intervention.</li></ul>
<b>Kryptos - Cryptography toolkit that includes various encoding schemes.</b> 
<ul style="list-style-type: none"><li>Allows users encode or decode using a choice of five different cryptography algorithms.</li></ul>
<b>Hexplorer - Command-Line hexdump utility written in C.</b> 
<ul style="list-style-type: none"><li>Allows developers and engineers to examine the raw bytes of a file or data stream.</li></ul>
<b>Write-ups - Collection of CTF write-ups.</b> 
<ul style="list-style-type: none"><li>Includes writeups for: Binary Exploitation, Reverse Engineering, Web Exploitation, Network Forensics, System Forensics</li></ul>

## CERTIFICATIONS

eJPTv2  , ICCA  , Fortinet NSE 1  , CNSP  , CRTP

## ASSIGNED CVES

<b>CVE-2024-42717:</b>  SQL injection in Task Reminder System (/classes/Users.php?f=save).
<b>CVE-2024-6807:</b>  Cross Site Scripting in Student Study Center Desk Management System (firstname, middlename, lastname, username).
<b>CVE-2024-6802:</b>  SQL injection in Computer Laboratory Management System (/lms/classes/Master.php?f=save_record).
<b>CVE-2024-6732:</b>  SQL injection in SourceCodester Student Study Center Desk Management System (/sscdms/classes/Users.php?f=save).
<b>CVE-2024-6731:</b>  SQL injection in SourceCodester Student Study Center Desk Management System (/Master.php?f=save_student).
<b>CVE-2024-6729:</b>  SQL injection in in SourceCodester Kortex Lite Advocate Office Management System (/control/add_act.php).

## EDUCATION

<b>Bachelors of Engineering in Computer Science &amp; Honors in Cybersecurity</b> Vidyalankar Institute of Technology - Mumbai, India	2020 – 2024
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