Prasaanth Sakthivel

Security Engineer

📞 +91 8056419278

📍 TamilNadu,India

✉ prasaanth2k@gmail.com

🔗 linkedin.com/prasaanth-sakthivel

SUMMARY

Cybersecurity professional with over 2 years of experience in red teaming, penetration testing, and vulnerability assessment for web, mobile, and cloud environments. Proficient in identifying and mitigating security risks, with a strong focus on OWASP Top 10 vulnerabilities and secure coding practices. Skilled in collaborating with development teams to implement robust security measures and stay ahead of emerging threats. Demonstrated expertise in using tools like Burp Suite, OWASP ZAP, and Metasploit, along with scripting skills in Python and Bash to automate and enhance security processes.

EXPERIENCE

Security Engineer - Selfmade Ninja Labs - 1 Years

📅 09/23 - Present   📍 Banglore, Karnataka

Developed and maintained comprehensive CTF labs focused on OWASP Top 10 challenges, including full-fledged binary exploitation labs. Designed secure Docker container environments for lab users, managing user containers, patching vulnerabilities, and integrating WireGuard VPN solutions to enhance network security. Spearheaded container security initiatives in Linux environments, optimized system performance, and implemented secure CI/CD pipelines, ensuring robust and secure code deployments. Enhanced team skills in reverse engineering and penetration testing through advanced, hands-on CTF scenarios

Security Automation Engineer - Inmakes Infotech Internship - 4Months

📅 12/22 - 03/23   📍 Kochi, Kerala

Developed, maintained, and executed automated security test scripts using Selenium and Appium, identifying and documenting security vulnerabilities and verifying remediations. Collaborated with developers and security stakeholders to ensure effective resolution of issues and integrated automated security testing into the continuous integration and delivery pipeline. Actively participated in security requirements and design reviews, enhancing application testability and resilience against threats

Web Researcher - Lessburn - 7 Months

📅 09/22 - 03/23   📍 Coimbatore,TamilNadu

Conducted in-depth web application vulnerability assessments in alignment with OWASP Top 10 standards, remediating critical security flaws to enhance application resilience. Automated security testing through Python, boosting penetration testing efficiency by 20%. Executed privilege escalation and exploitation within Linux and containerized environments, reinforcing system security. Collaborated with development teams to secure web application deployments, proactively addressing and mitigating potential vulnerabilities

SKILLS

Web Application Security

Vulnerability Assessment

Scripting & Automation

Exploit Development   **Container Security**

Network Penetration Testing

Malware Analysis

Reverse Engineering

Firmware Dumping & Analysis:Flash Memory

API Penetration Testing

VOLUNTEERING

YUKTHI-CTF CONDUCT BY TAMIL NADU POLICE

📅 04/24

Designed and developed advanced CTF challenges for cybersecurity event

Backrooms Dilemma : File upload vulnerability using htaccess and Python binary privilege escalation.

Frutiy : XML injection exploit combined with a fake binary leading to privilege escalation

Drug-Free Society : Binary exploitation challenge with privilege escalation

Wedding Fusion: Combined RCE, sudo misconfigurations, and brute force attack scenarios

IBM-5100: Command injection vulnerability simulation

SSTI in rubyPickle Portal: RCE using Python's pickle/unpickle mechanism and privilege escalation through vulnerable file descriptors

TRAINING / COURSES

Complete Ethical Hacking
Udemy - 2020

Completeee Hands on Ethical Hacking (Python)
Udemy - 2020

PROJECTS

MoniSys OS Monitoring Tool

Monisys is a Python3 package built on top of Osquery that allows users to monitor and retrieve comprehensive
information about their operating systems. This package can be used to develop custom monitoring dashboards or utilize
the built-in dashboard for seamless monitoring. MoniSys improved system response time by 20% through efficient
monitoring and alerting

Education

Bachelor of Science in Physics - 6.9 CGPA
📅 2018 - 2021
Kaamadhenu Arts and Science College Sathy -
Sathyamangalam , Erode

TOOLS / PROGRAMING LANGAUAGES

- **Security Tools:** Burp Suite, OWASP ZAP, Metasploit, SQLmap, Nikto

- **Programming & Scripting:** Python, Bash, PowerShell, C, JavaScript, PHP, Assembly

- **Network & Analysis Tools:** Wireshark, Nmap, Netcat, Splunk, Osquery

- **Reverse Engineering:** IDA Pro, Ghidra, Radare2, GDB, pwntools

- **Container & CI/CD:** Docker, Secure CI/CD Pipelines

Declaration

I hereby declare that the information provided in this resume is true to the best of my knowledge and belief. I understand that any misrepresentation of facts may result in disqualification from employment opportunitie