

Aruvasaga Chithan A

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LinkedIn GitHub Portfolio

Professional Summary

With a passion for using innovation to improve security, I focus on offensive testing, manual exploitation, and AI-driven automation. Skilled with Burp Suite, OWASP ZAP, and Metasploit, I have built automated scanners and competed in national and international CTFs. I ethically exploit vulnerabilities in controlled environments and deliver actionable fixes that strengthen defenses.

Education

B.E. Computer Science Engineering (Cyber Security) Sree Sakthi Engineering College, Coimbatore	2023 – 2027 (CGPA :8.71)
HSC Sri Ram Matric Higher Secondary School, Cuddalore	March 2023 (82.7%)
SSLC Sri Ram Matric Higher Secondary School, Cuddalore	March 2021 (Passed)

Internship

Cyber Security Intern – CODTECH IT SOLUTIONS (Remote) Oct 2024 – Nov 2024

- Performed web application penetration testing to identify and exploit vulnerabilities in simulated environments..
- Developed custom Python-based tools to automate reconnaissance and streamline vulnerability assessments.
- Gained practical experience in manual exploitation, bug reporting, and secure application analysis through real-world simulations.

Projects

VulnAPI — OWASP API Top 10 Security Lab [GitHub]

- Engineered a Dockerized OWASP API Top 10 vulnerable lab that improved hands-on API security comprehension by ~70% through realistic, documentation-free attack scenarios.
- Designed 10 real-world API vulnerabilities enabling end-to-end exploitation workflows, reducing dependency on guided labs and strengthening manual API testing proficiency.

PentestPilot v1.0 — Automated Web Vulnerability Scanner [GitHub]

- Developed an AI-assisted automated web vulnerability scanner with an 82% accuracy rate in detecting critical web application vulnerabilities, streamlining the penetration testing process.
- Integrated automated PDF reporting with CVSS-based risk scoring to deliver clear, professional, and actionable vulnerability insights.

Network Vulnerability Scanner [GitHub]

- Developed a network vulnerability scanner with a 94% success rate in identifying common misconfigurations, streamlining the security assessment process.
- Engineered a GUI for enhanced usability and clear reporting.

Skills

Vulnerability Assessment & Penetration Testing: Metasploit, Burp Suite, OWASP ZAP, Nmap, Nessus, Wireshark, OpenVAS

Security Concepts & Operations: OWASP Top 10, CVE, CVSS, API, Docker, Active Directory, SIEM

Programming & Scripting: Python, Bash, C++, JavaScript

Operating Systems & Networking: Kali Linux, Windows Server, Ubuntu, TCP/IP, DNS, HTTP/HTTPS

Soft Skills: Analytical thinking, technical communication, team collaboration, cybersecurity research

Certifications

Nov 2025 – Ethical Hacking(75%)	NPTEL
Oct 2025 – eJPT(eLearning Junior Penetration Tester-82%)	INE Security
Aug 2025 – Google Cybersecurity Professional Certificate	Coursera
Apr 2025 – Computer Networks and Internet Protocol (58%)	NPTEL
Jan 2025 – Jr. Penetration Tester	TryHackMe

Achievements & Awards

- **SSEC Visionary Award 2K25** – Recognized for exceptional Tech Excellence and Code Mastery.
- **1st Prize – Project Expo (Wild Guard)** – Sree Sakthi Engineering College – 2024
- **1st Prize – National Level CTF** – Karpagam College of Engineering – 2025
- **1st Prize – National Level CTF** – Dr. Mahalingam College of Engineering and Technology – 2024
- **2nd Prize – Paper Presentation** – Christ the King Engineering College – 2024
- **Best Attendee Award – Mastery Hacking Workshop** – Sri Eshwar College of Engineering – 2025
- **International CTF – 17th out of 40 Teams** – KPR Institute of Engineering and Technology – 2025
- **International 48-Hour CTF – 37th out of 389 Teams** – Hackers Gambit, Jaihind College of Engineering – 2025
- **International CTF – 12th out of 162 Teams** – Chaitanya CTF, Himachal Pradesh Technical University (HPTU) – 2025
- **Bug Bounty Researcher** – Reported a P3 Level Vulnerability in Microsoft Copilot via MSRC – Acknowledged – 2025

Volunteer Experience

Intra-College CTF Organizer – Sree Sakthi Engineering College **2025**

- Coordinated and executed an Intra-College Capture The Flag competition with over 160 participants.
- Designed challenges, managed scoring systems, and promoted cybersecurity learning through competition.

Organizer – Gen Alpha Club, Sree Sakthi Engineering College **2024 – 2025**

- Organized cybersecurity workshops, Capture The Flag (CTF) sessions, and AI-based technical activities.
- Led event planning, resource management, and technical mentoring for participants.

Publications

- “Automated Web Application Penetration Testing Using AI” – International Journal of Management Systems (2025)