

ELAVARASAN THANDAPANI

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EXECUTIVE SUMMARY

Hands-on experience in Linux, networking, and offensive security. Built a microservices-based vulnerability assessment framework using Python and Docker. Skilled in Nmap, Burp Suite, Metasploit, Python, and Bash scripting. Seeking a cybersecurity internship to apply security and automation skills.

TECHNICAL SKILLS

Programming & Scripting: Python, Bash, HTML, CSS, JavaScript

Frameworks: FastAPI

DevOps / Systems: Docker, Kubernetes, Nginx, Git, Raspberry Pi, Tailscale, Virtual Machines

Databases: PostgreSQL, MongoDB

Security Tools: Nmap, Burp Suite, Metasploit, Wireshark, Gobuster, Autopsy, Ghidra

Security Domains: Fundamentals, OSINT, Web Application Security, Vulnerability Assessment

CTF Focused: Linux, Reverse Engineering, Binary Exploitation, Forensics

PROJECTS

Saptara - Automated Vulnerability Assessment Framework

Python | FastAPI | Docker | PostgreSQL | Microservices | Prometheus/Grafana

- Developed a microservices-based vulnerability assessment framework with a 3-stage pipeline (Scanner, Simulator, Validator) covering 17 OWASP Top 10 categories including SQL injection, XSS, SSRF, and authentication bypass
- Implemented multi-step exploit simulation (second-order SQLi, JWT algorithm confusion, race conditions) with full observability via Prometheus, Loki, and Grafana dashboards
- Containerized 4 FastAPI services with Docker Compose, PostgreSQL persistence, Redis caching, and a CLI tool for pipeline orchestration

Raspberry Pi Home Server: Secure Cloud & VPN

Raspberry Pi 5 | Linux | Docker | Tailscale | Portainer | Nextcloud

- Built a Linux-based home server using Docker, with services managed via Portainer.
- Configured Tailscale VPN for secure, zero-trust remote access and deployed Nextcloud for private cloud storage for multi-device access across personal systems.

EXPERIENCE

OWASP Sathyabama Student Chapter Management Team Lead

March 2026 - Present

- Coordinated event logistics, team operations, and technical workshops for 250+ students including CTF competitions and cybersecurity awareness sessions

Capture the Flag (CTF) Competitions Participant

September 2023 - Present

- Analyzed ELF binaries, performed basic memory inspection, and developed exploits for vulnerable programs in timed environments.

OWASP Sathyabama Student Chapter Technical Team Member

August 2025 - March 2026

- Managed infrastructure using Kubernetes (k8s), Nginx, and AWS for event deployments and lab environments. Designed and deployed CTF challenges using Docker, K3s, and Traefik.

EDUCATION

Sathyabama Institute Of Science And Technology

B.E. Computer Science and Engineering (Cyber Security)

CGPA: 8.58

2023 - 2027

Chennai, India