

RAMYA RADJESH

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Innovation & Research

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[LinkedIn](#)

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[Portfolio](#)

About:

Cybersecurity graduate with a strong foundation in vulnerability assessment, digital forensics, and secure system analysis. Gained practical experience during an internship at Orange, where I researched Android security enhancements using eBPF and developed a prototype malware detection tool (BPFroid). Actively seeking opportunities as NOC & VAPT based roles and Entry-level Cybersecurity based roles. Currently doing VAPT based individual projects and learning new cybersecurity concepts in network security. Independent research on eBPF based Threats and its detections methods.

Education:

1. Master of Science in Computer Security – EPITA (École Pour l'Informatique et les Techniques Avancées) - Sept 2022 – April 2025
2. Bachelor's in Computer Science Engineering - Sri Manakula Vinayagar Engineering college - August 2018 – April 2022

Experience:

February 2024 – July 2024

Internship - Developer - Security policy(Research) - [eBPF](#) | Orange | Data Privacy and Innovation Team

- Researched eBPF(Extended Berkeley Packet Filter) integration in Android mobile security; analyzed performance and security use cases.
- Assessed OS compatibility, system call control, and traffic monitoring use cases.
- Identified patterns of eBPF operation across Android OS for enhanced credential risk detection.
- Designed and implemented a prototype of BPFroid, a mobile malware detection framework.
- Explored proof-of-concept approaches to detect and mitigate credential-based threats.
- Applied knowledge of mobile development, system-level Android security, and risk assessment.

Projects/Experience:

1. PASSWORD CRACKING TOOL (Master's Project) - Built a distributed password-cracking system using Kubernetes, Docker, and bcrypt with multiprocessing. Marketing and Sales knowledge development - Convinced our mentors and cybersecurity professionals that our project secures the client related database.
Skills: Kubernetes & Docker Containers, Bcrypt Hashing, Multiprocessing, Python, Marketing and communication.
2. DIGITAL FORENSICS & INCIDENT RESPONSE - Investigating a hardware dump and obtaining the details about the comprised server. Finding the Vulnerability, IP address and the services executed.
Skills: Kali Linux Hard disk dump investigation Report creation with timeline.
3. WEB APPLICATION SECURITY - Finding the Vulnerability inside a web application with the help of Common Weakness Enumeration (CWE) and calculating their risk and severity score.
Skills: Kali Linux, Investigation of e-commerce website through the use case & privileges.
4. SOFTWARE & DATABASE AUDIT - Finding the Vulnerability inside a software & database with the help of Common Weakness Enumeration (CWE) and calculating their risk and severity score with good accuracy.
Skills: Kali Linux, Investigation of Software through the use case & privileges.
5. PASSWORD MANAGER TOOL - Created a password manager to store the password encrypted by adding salt and by using the fernet library.
Skills: Cryptography, Fernet library.

Risk & Compliance: ISO 27001, NIST, GDPR, HIPAA, OWASP top 10 (Web & Mobile), Mitre ATT&CK.

Tools & Platforms: Kali Linux, Docker, Kubernetes, Wireshark, Cisco Packet Tracer, SIEM (Splunk, Nmap).

Security & Monitoring: VAPT, Network Security, Vulnerability Scanning, System Hardening, ISO 27001, NIST

Support Skills: Troubleshooting (L1/L2), System Documentation, Network Monitoring, Research analysis.

Soft Skills: Communication, Evidence Management, Attention to Detail, Team Collaboration.

Languages Known: English (Professional)(C1), Tamil (Native), French (Intermediate)(B1).