

RAVINDHAR V

Cyber Security Engineer

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Portfolio: <https://ravindharcys.github.io/Portfolio/>

GitHub: <https://github.com/RavindharCYS>

PROFESSIONAL SUMMARY

Cyber Security Engineer with a comprehensive background in penetration testing, network security, cyber forensics, security operations (SOC), and incident response. Proficient in programming languages including Python, C, C++, and Java, with hands-on experience using tools such as Wireshark, Metasploit, Burp Suite, Splunk, and OWASP ZAP. Demonstrated ability to design and implement security automation tools, perform vulnerability assessments, and develop secure IoT solutions. Holds multiple industry-recognized certifications in Ethical Hacking, Network Security, Application Security, and System Administration. Dedicated to maintaining high standards of cybersecurity practices, continuous professional development, and contributing effectively to organizational security objectives with strong analytical and problem-solving skills.

EDUCATION

Bachelor of Engineering in Cyber Security

Paavai Engineering College, Namakkal

Completed: May 2024 | CGPA: 7.55

HSC (12th Grade)

AIM Matriculation Higher Secondary School, Thammampatti

Completed: 2020 | Marks: 63.3%

SSLC (10th Grade)

AIM Matriculation Higher Secondary School, Thammampatti

Completed: 2018 | Marks: 77.2%

PROFESSIONAL TRAINING

Cybersecurity Specialist

NIIT, Chennai

June – December 2024

Comprehensive training covering:

- Linux System Administration (Essential to Advanced)
- Programming and Scripting in Python
- Logical/Physical Networks and TCP/IP Internetworking

- Cloud Computing and Containerized Virtual Infrastructure
- Information Security Systems
- Ethical Hacking
- Scanning and Exploitation of Information Systems
- Security Operations

TECHNICAL SKILLS

- **Programming Languages:** Python, C, C++, Java
- **Security Tools:** Wireshark, Metasploit, RouterSploit, Hydra, Burp Suite, John the Ripper, OWASP ZAP, WAZUH, Splunk
- **Operating Systems:** Linux (Red Hat, Ubuntu, Kali Linux), MacOS, Windows
- **Cloud Platforms:** AWS, Hyper-V, Zabbix
- **Cybersecurity Expertise:** Penetration Testing, Vulnerability Assessment, Incident Response, Network Diagnostics, Logwatch Implementation

CERTIFICATIONS

- Cisco Certified Ethical Hacker (2025)
- Fortinet Certified Associate in Cybersecurity (2025)
- Fortinet FortiGate 7.4 Operator (2025)
- Cybersecurity Specialist from NIIT (2024)
- Certified Network Security Practitioner (CNSP) (2024)
- Certified AppSec Practitioner (CAP) (2024)
- Google Cybersecurity Professional (2023)
- Red Hat Certified System Administrator (2023)
- Webpage Development - Asia University, Taiwan (2023)
- Java Business Application - IIT Bombay (2022)
- Robotic Process Automation (RPA) (2022)

PROJECTS

Sentinel-Site – Cyber Forensics Tool

- Developed a cybersecurity tool enabling end users to detect system compromises and identify potential malware
- Implemented automated threat identification and remediation features to support secure recovery and system integrity

Auto Pentest Tool – CLI-Based Security Tool | Python

- Built a command-line tool to automate vulnerability assessments and scans
- Detected common security flaws using customizable scanning modules
- Supported export of results into structured reports for quick analysis

Web Pentest Automation – Penetration Testing Tool | Java

- Designed a Java-based automation tool for web application security testing
- Simulated attacks to check for SQLi, XSS, CSRF, and authentication flaws
- Streamlined the reporting process with categorized vulnerability summaries

Malware Detection using ML – Machine Learning Project | Python

- Developed a machine learning model to classify benign and malicious files
- Trained on labelled malware datasets using decision trees and SVM algorithms
- Achieved high detection accuracy and reduced false positives in real-time scanning

Eco-Inverter – IoT & Renewable Energy Project

- Engineered an innovative solution to harvest energy from refrigerator waste heat
- Integrated IoT functionality for remote monitoring and control of home circuits
- Delivered up to 240V/2000W of electricity output

Password Authenticator – Biometric Security System

- Built a biometric-based password manager to streamline user authentication
- Enhanced security and user convenience through advanced identity verification

SOFT SKILLS

- Problem-solving
- Attention to detail
- Teamwork
- Effective communication
- Adaptability
- Critical thinking