

Harshavardhan Pradeep Khot

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Cybersecurity Enthusiast | Software Developer | Security Engineer

Professional Summary

Passionate cybersecurity and software engineering professional with hands-on experience in SOC operations, VAPT, digital forensics, and CTF challenge creation. Adept at developing secure systems, automating processes, and building real-world security scenarios. Completed practical training with the Indian Army, specializing in SOC integration, real-time project execution, and security engineering.

Skills

- **Security Operations:** Wazuh, Splunk, SIEM, Log Monitoring, Incident Response, Patch Management, Attack Simulation, SOC Integration
- **Cybersecurity:** VAPT, Digital Forensics, Post-Exploitation Mitigation, Android Application Security (MobSF), CTF Challenge Design
- **Programming:** Python, Java, C, C#, HTML, CSS, JavaScript
- **Tools & Technologies:** Burp Suite, Wireshark, Metasploit, Kali Linux, Ubuntu, CentOS, VirtualBox, GFI LanGuard
- **AI/ML & Data Analysis:** Deep Learning, Computer Vision, Medical Image Classification
- **Soft Skills:** Leadership, Problem Solving, Technical Documentation, Team Collaboration, Workshop Facilitation

Professional Experience

Cybersecurity & SOC Intern — Indian Army

Offline Internship | Jan 2025 – Apr 2025

- Integrated Wazuh and Splunk for efficient SOC monitoring and advanced log analysis.
- Conducted simulated cyberattacks to evaluate and improve detection mechanisms.
- Performed successful attacks on Wazuh agents from Kali Linux for log validation and alert accuracy.
- Created over 25 CTF machines replicating real-world attack vectors and vulnerabilities.
- Developed more than 15 virtual machine challenges using Ubuntu, CentOS, and Kali Linux.
- Conducted Android mobile application vulnerability assessments using Mobile Security Framework (MobSF).
- Assisted in security engineering, incident response, and implementation of mitigation strategies.

Cybersecurity Intern — Fortinet & Palo Alto Networks (via EduSkills Virtual Internship)

Virtual Internship | Duration: 2 months

- Gained hands-on exposure to enterprise-grade network security solutions.
- Assisted in configuring firewalls and performing threat analysis to prevent breaches.
- Understood best practices in network segmentation and security policy management.

Projects

Cyber Crime Reporting System

- Developed a secure, multi-role web application for reporting and managing cybercrime cases.
- Implemented user roles (Admin, Police Officer, User) to ensure role-based access control (RBAC).
- Integrated encryption techniques to secure sensitive data and complaint records.
- Focused on safe complaint handling, incident tracking, and real-time status updates.

Pneumonia Detection System using AI

- Built a deep learning model for early pneumonia detection using chest X-ray images.
- Employed convolutional neural networks (CNN) for accurate medical image classification.
- Achieved high accuracy by fine-tuning hyperparameters and improving model architecture.
- Aimed at assisting healthcare providers in faster and more reliable pneumonia diagnosis.

Leadership & Activities

- Leadership & Activities
- President: TKIET - Linux User Group
- Technical Head: LogiCode Coding Club

Certifications

Fortinet Network Security Expert (NSE)
Palo Alto Networks Cybersecurity Foundation

Education

B.Tech – Computer Science & Engineering
Shivaji University, Kolhapur | Graduation: 2025