

Akshara K K

☎ (+91) 7306099576 ✉ aksharakarthikeyan08@gmail.com 🌐 linkedin.com/in/akshara-karthikeyan

Kerala, Thrissur

Career Objective

Aspiring Cyber Security and Full-Stack Development professional with knowledge in penetration testing, vulnerability assessment, and web application development. Seeking opportunities to apply my skills in ethical hacking, secure coding, and scalable application design.

Technical Skills

Cybersecurity Tools: Burp Suite, Metasploit, Wireshark, Nmap, Nessus, Nikto, Hydra, John the Ripper
Web Development: MERN Stack (MongoDB, Express, React, Node.js), RESTful APIs, Responsive Design
Languages: Python, Java, Bash Scripting, JavaScript, HTML/CSS, PHP, MySQL
Skills: Penetration Testing, Vulnerability Management, Report Writing (VAPT)

Internship

- **MERN Stack Internship – EY GDS & AICTE Next Gen Employability Program** Feb 2025 – Mar 2025
Remote
 - Completed a 6-week full-stack web development internship focused on the MERN stack.
 - Built a Recipe Sharing Platform with features like user authentication, real-time database interaction using MongoDB, and a fully responsive design.
 - Gained practical experience in RESTful API integration, MongoDB management, and enhancing UI/UX.

Projects

- **Vulnerability Assessment & Penetration Testing (VAPT) Lab**
 - * Conducted network scanning, vulnerability exploitation, and privilege escalation on test lab systems
 - * Tools: Nmap, Nessus, Metasploit, Burp Suite
 - * Produced detailed penetration testing reports with risk ratings and recommendations
- **Keylogger Monitoring & Analysis Project**
 - * Designed and implemented a keylogging program to monitor keystroke activity in a controlled lab environment
 - * Captured and logged keyboard inputs for security analysis and threat detection research
 - * Technologies: Python, OS-level keyboard hooks, File handling
 - * Gained hands-on understanding of malware behavior, attack vectors, and defensive countermeasures
- **Signature Detection using Deep Learning**
 - * Developed a machine learning model to detect genuine signatures
 - * Applied CNN architectures with high accuracy for classification
 - * Implemented Python (TensorFlow/Keras, OpenCV) for image preprocessing and model training
- **Hostel Hub – MERN Stack Web Application**
 - * Developed a multi-interface hostel management system with student, warden, and admin dashboards.
 - * Features: Complaint registration, attendance tracking, notices from higher authority, and fee management.
 - * Built using MongoDB, Express, React, and Node.js with responsive UI.

Education

- **KMEA Engineering College, Edathala** 2025
completed Bachelor of Technology in Computer Science
- **Higher Secondary Certificate (HSC)** 2021
Percentage: 84%
- **High School Certificate (SSC)** 2019
Percentage: 86%

Certifications

- Certified Penetration Tester (2025)
 - * Domains: Network Pentesting, Advanced Web Application Pentesting, Wireless Security, Vulnerability Management, VAPT Reporting
- Currently pursuing: Certified Ethical Hacker (CEH)

Soft Skills

- Analytical Thinking • Problem Solving • Research & Documentation
- Team Collaboration • Communication • Attention to Detail

Personal Traits

- Passionate about Cyber Security and Full-Stack Development
- Highly motivated, quick learner, and adaptable to new technologies
- Strong ability to work independently and in teams