

# Akshara K K

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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** completed Bachelor of Technology in Computer Science 2025

- **Higher Secondary Certificate (HSC)** Percentage: 84% 2021

- **High School Certificate (SSC)** Percentage: 86% 2019

## Certifications

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- 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

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

## Personal Traits

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- 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