

Fathima Nida V V

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About

M.Tech Cyber Security student with a B.Tech in Computer Science. Strong interest in cybersecurity with hands-on experience in security tools and software development. Quick learner, eager to contribute to real-world projects. Adaptable and detail-oriented software engineer with strong analytical thinking and problem-solving skills. Skilled in leveraging technology to improve processes and deliver efficient, reliable solutions. Highly motivated to learn, adapt to evolving industry trends, and contribute effectively in collaborative and dynamic work environments.

Projects

Multi-Layer Security Algorithm (ENP)

Dec 2025 – Present

- Designed a multi-layer authentication framework combining SHA-256, Negative Password Transformation, and AES encryption.

Smart Attendance System

Jul 2025 – Aug 2025

- Developed a web-based facial recognition attendance system with role-based dashboards for Admin and Staff.
- Integrated Firebase Authentication & Firestore for secure sign-in, real-time logs, and payroll data management.

Wi-Fi Indoor Location Tracking

Aug 2023 – Apr 2024

- Designed high-accuracy indoor positioning using improved WKNN algorithms with Kalman filtering.
- Built Python-Flask web interface with MySQL backend for real-time location display and analysis.

Online Rental House

Sept 2022 – Jan 2023

- Created a rental platform connecting landlords and tenants with modules for admin, tenant, and landlord.
 - Implemented using Python (Flask/Django), MySQL, HTML, CSS, Bootstrap, and JavaScript.
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Education

Cochin University of Science and Technology (CUSAT)

Jul 2024 – Present

M.Tech, CSE (Cyber Security) CGPA: 9.14/10

KMCT College of Engineering for Women

2020 – 2024

B.Tech, Computer Science & Engineering CGPA: 7.94/10

Skills

Languages: Python, HTML, C

Databases: MySQL

Tools/IDEs: Android Studio, Git, Docker, Jenkins, VS Code

Cybersecurity: Burp Suite, Autopsy, Nmap, Cisco Packet Tracer, Aircrack-ng, Wireshark

Other: Adobe Photoshop, Microsoft Word/PowerPoint, Adobe XD, LaTeX

Certifications

- Cyber Security and Ethical Hacking (05/2022)
- Introduction to Machine Learning (01/2023–02/2023)
- Data Analysis Using Python (ICFOSS) (04/2023)
- Cyber Security, AWS and Data Science (09/2023–10/2023)

- Foundations of Security — Google (02/2024)
 - Cyber Security Intern- Techbyheart(06/2024-07/2024)
 - NPTEL: Cloud Computing & Distributed Systems (01/2025–03/2025)
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Key Achievements

- Developed a smart attendance system reducing manual record-keeping.
 - Designed high-accuracy indoor location tracking system using advanced algorithms.
 - Built full-stack rental platform connecting landlords and tenants.
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Languages

English (Fluent), Malayalam (Native), Hindi (Basic)