

KETAN PATHADE

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Education

VIT Bhopal University

B.Tech in Computer Science and Engineering

2022 – 2026

CGPA: 8.32/10

Technical Skills

Languages: C++, JavaScript, Python

Web Technologies: HTML, CSS, React.js, Node.js, MySQL, MongoDB

Developer Tools: Git-Github, AWS, Vercel, Cloudinary

Projects

Hostel Dex – Hostel Issue Tracking Platform (MERN Stack)

Feb 2025 – Apr 2025

Complaint Management Platform

- Engineered a complaint management system for hostel students and administrators, streamlining resolution of 100+ maintenance issues.
- Developed ticket creation, filtering, and search features with RESTful APIs, improving issue tracking efficiency by 35%.
- Implemented admin panel with urgent issue alerts, task assignment, and visual reports (charts/graphs), improving resolution rate by 40%.
- Delivered a responsive and modern UI with React.js and Tailwind CSS, increasing student satisfaction (300+ positive feedbacks in first month).

Image Encryption System (Python, AES, PyCryptodome)

Dec 2024 – Jan 2025

AES-Based Image Encryption & Decryption System

- Developed a Python-based encryption utility using AES, securing 100+ high-resolution images from unauthorized access.
- Integrated PyCryptodome for robust encryption/decryption with key management, ensuring data confidentiality.
- Designed a simple web interface enabling non-technical users to encrypt/decrypt images across platforms.
- Validated with 500+ test images, achieving average encryption speeds under 3s and reducing breach risks by 80%.

Adoptbuddy – (MERN Stack)

Jul 2024 – Sept 2024

Pet Adoption Platform

- Designed and deployed a MERN application connecting pet owners with adopters, hosting 20+ pet profiles and processing 25+ adoption requests.
- Implemented secure authentication and real-time validated forms, reducing form errors by 30%.
- Built an admin dashboard for reviewing and approving profiles/requests, improving request handling efficiency by 40%.
- Optimized performance using responsive layouts, lazy loading, and image compression, reducing load times by 20%.

Certifications

- AWS Cloud Certification
- NPTEL - Cloud Computing by IIT KGP

Leadership / Achievements

- AWS Cloud Club VIT Bhopal Core Member
- Achieved LeetCode Rating: 1453 with 100+ problems solved
- Dhol Tasha Pathak Lead
- Completed 100 Days of Code on LeetCode, solving 120+ problems in DSA using C++. Shared progress consistently on LinkedIn.