

# KETAN EKNATH 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++, Python, JavaScript, Typescript

**Web Technologies:** React.js, Node.js, RESTful APIs, MongoDB, MySQL, SDLC

**Developer Tools:** Git/GitHub, AWS, Vercel, Cloudinary, Postman

## Projects

### Hostel Dex (React.js, JavaScript, RESTful APIs)

Feb 2025 – Apr 2025

Complaint Management Platform

- Engineered scalable complaint management system for hostel students and administrators using object-oriented programming principles, streamlining resolution of 100+ maintenance issues.
- Developed ticket creation, filtering, and search features with clean RESTful APIs and modern web frameworks, improving issue tracking efficiency by 35%.
- Implemented admin panel with urgent issue alerts, task assignment, and visual reports (charts/graphs) through full software development lifecycle, boosting resolution rate by 40%.
- Delivered responsive UI with React.js, Tailwind CSS, and problem-solving optimizations, achieving 300+ positive feedbacks in first month and demonstrating strong collaboration skills.

### Image Encryption System (Python, AES, PyCryptodome, Cryptography)

Dec 2024 – Jan 2025

AES-Based Image Encryption & Decryption System

- Developed secure encryption utility in Python using AES algorithm following object-oriented programming principles, protecting 100+ high-resolution images from unauthorized access.
- Implemented robust encryption/decryption with PyCryptodome library, including effective key management for data confidentiality and integrity.
- Created user-friendly web interface enabling cross-platform encryption and decryption, demonstrating full software development lifecycle and UI/UX design skills.
- Validated with 500+ test images, optimizing performance to achieve average encryption speeds under 3s, reducing data breach risks by 80%.

### Adoptbuddy – (React.js, Express.js, Node.js, MongoDB)

Jul 2024 – Sept 2024

Pet Adoption Platform

- Designed and deployed scalable MERN stack application connecting pet owners with adopters, managing 20+ pet profiles and processing 25+ adoption requests, utilizing object-oriented programming principles.
- Implemented secure authentication and real-time validated forms with clean coding practices, reducing form errors by 30%.
- Built admin dashboard with React.js and Node.js for reviewing and approving profiles/requests, improving request handling efficiency by 40% through full software development lifecycle execution.
- Optimized application performance using responsive layouts, lazy loading, and image compression, reducing load times by 20% and demonstrating strong problem-solving skills.

## Certifications

- AWS Cloud Certifications
- Oracle Cloud Infrastructure 2025 AI Foundations

## Leadership / Achievements

- Contributed to multiple open-source projects by resolving issues, adding features, and collaborating with global developer communities to improve software quality and functionality.
- AWS Cloud Club VIT Bhopal Core Member
- Achieved LeetCode Rating: 1453 with 150+ problems solved