

Pratik Raj

Pune, Maharashtra, India
Bachelor of Technology
MIT ADT University, Pune

+91-8409706023

✉ pratikraj2000qwerty@gmail.com

🐙 github.com/PratikThisSide

🌐 linkedin.com/in/prpratikraj

Summary

Third-year Computer Science undergraduate at MIT ADT University with hands-on experience building full-stack web applications and cloud-native systems on AWS. Proficient in Java, Node.js, and React.js, with a growing depth in distributed systems and cloud infrastructure. Consistent competitive programmer with a 450+ day LeetCode streak. Seeking a software engineering internship to contribute meaningfully and deepen practical expertise.

Education

| | |
|---|--------------|
| Bachelor of Technology in Computer Science & Engineering | (CGPA: 7.32) |
| MIT ADT University, Pune | 2023 – 2027 |
| Class XII | 2021 – 2023 |
| Lyceum International School | |
| Class X | 2020 – 2021 |
| Indian Public School | |

Personal Projects

•Campus Maintenance Scheduling System

Full-Stack Web Application

- Built a scalable web-based platform to manage and prioritize campus maintenance requests, designed to support **1,000+ concurrent users**.
- Implemented **role-based access control** for Admin, Staff, and User roles using **Node.js** and **JWT** for secure, session-aware authentication.
- Designed a structured relational schema in **MySQL** for efficient request tracking, real-time status updates, and a full audit trail.
- **Tech Stack:** React.js, Node.js, MySQL, JWT.

•Face Recognition Attendance System

Embedded Systems | Computer Vision

- Developed an automated attendance system on **Raspberry Pi 5** using real-time face detection and recognition, eliminating manual roll-call processes.
- Integrated computer vision models for accurate face identification, achieving measurable improvements in logging speed and accuracy over traditional methods.
- **Tech Stack:** Python, OpenCV, face_recognition, Raspberry Pi OS.

•Smart Auto-Scaling URL Shortener

Distributed Cloud-Native System

- Designed a distributed URL shortening service comparable to bit.ly, with a focus on high availability, low-latency redirection, and horizontal scalability.
- Built REST APIs using **Node.js** for URL generation, mapping, and redirection; integrated auto-scaling logic to handle traffic spikes gracefully.
- Leveraged **AWS EC2, S3, and DynamoDB/RDS** for scalable compute, static asset delivery, and persistent URL storage.
- **Tech Stack:** Node.js, AWS EC2, S3, DynamoDB/RDS.

Achievements & Certifications

- Maintained a **450+ day** active problem-solving streak on **LeetCode**, demonstrating consistent algorithmic discipline.
- Earned **Oracle Cloud Infrastructure (OCI) Cloud Foundation Associate** certification.
- Completed **AWS Cloud Practitioner Essentials** – Amazon Web Services.

Technical Skills

Languages: Java (Intermediate), Python (Basic), JavaScript

Frontend: React.js, HTML, CSS, JavaScript

Backend: Node.js, REST APIs

Databases: MySQL, DynamoDB (AWS)

Cloud & DevOps: AWS (EC2, S3, RDS, DynamoDB), Azure (Basics), Docker, Linux

Tools & Platforms: Git, GitHub, Postman, VS Code

Core Concepts: Data Structures & Algorithms, Operating Systems, Computer Networks, OOP

Soft Skills: Problem Solving, Self-Learning, Adaptability, Team Collaboration