

PIYUSH PRAJAPATI

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EDUCATION

Thakur College of Engineering & Technology (TCET)

B.Tech in Artificial Intelligence & Machine Learning

CGPA: 9.56/10

Mumbai, India

Sep 2024 – Jun 2028

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, Python, SQL

Technologies: Next.js, Node.js, NestJS, MongoDB, Express.js, React.js, WebSocket, Socket.io, Passport.js

Tools: Git, Github, Cloudinary, Mapbox, RESTful APIs, TypeORM, Render, MongoDB Atlas, Helmet, bcrypt, Session Management

Competencies: Full-Stack Development, Backend Development

EXPERIENCE

Backend Developer Intern

June 2026 – July 2026

PearlThoughts

- Engineered a modular healthcare scheduling REST API utilizing NestJS and TypeScript, developing 7 core modules and 10 domain services encompassing over 2,200 lines of code
- Architected a robust relational database schema with 8 TypeORM entities – including complex scheduling, custom availability, and leave management tables – to enforce strict data integrity
- Designed and deployed 32 secure REST API endpoints, supporting full CRUD operations, complex booking validations, and dynamic schedule conflict resolution
- Automated asynchronous patient communications by integrating a background Cron job queue, decoupling notification processing from the main execution thread to optimize overall API response times

Documentation Team Member – Placement Assessments

Jul 2025 – Jul 2026

TCET Shastra Coding Club, Mumbai

- Compiled and analyzed mock coding test results from HackerRank for 100+ pre-final year students preparing for placements
- Created structured data reports with scores, rankings, and performance metrics ensuring accuracy across multiple test batches
- Coordinated with club leadership to deliver comprehensive documentation supporting student placement preparation

PROJECTS

Confera – Real-Time Video Conferencing Platform | *MERN Stack, Socket.io, WebRTC, Tailwind CSS* | [Live Link](#)

- Developed full-stack video conferencing platform enabling users to schedule, host, and join secure meetings with real-time collaboration
- Implemented low-latency bidirectional communication using Socket.io and WebRTC for seamless video, audio, and chat across concurrent rooms
- Engineered custom Glassmorphism UI with Tailwind CSS and optimized animations delivering responsive, lag-free user experience
- Optimized backend reliability on Render free-tier hosting with custom keep-alive health check strategy ensuring 24/7 availability

Stayzio – Accommodation Booking Platform | *Mapbox, Cloudinary, Passport.js, SendGrid, Redis* | [Live Link](#)

- Built production-ready booking platform with scalable architecture handling property listings, reservations, and user reviews
- Implemented secure authentication using Passport.js with session management and RESTful APIs with full CRUD functionality
- Integrated Mapbox for geolocation, Cloudinary for media optimization, and SendGrid for OTP verification and booking notifications
- Strengthened backend with Helmet, XSS protection, bcrypt hashing, rate limiting, and Redis caching to enhance security and performance

ACHIEVEMENTS & CERTIFICATIONS

- Nakshatra Tech Hackathon (Top 50 Finalist)** – Placed in the top 50 out of nearly 400 competing teams (1,591 students) in the healthcare sector at AP Shah Institute of Technology
- CodeChef Starters 220 (Global Rank 28)** – Secured a top 30 global finish, showcasing strong proficiency in data structures and optimization algorithms
- Young Turks'25 Challenge** – Successfully completed Round 1 of Infosys competitive technical challenge
- HackerRank Certified** – Java (Basic) and SQL (Basic) certifications validating core programming proficiency