

Pranit Diwakar Bijave

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Skills

Languages: C++, JavaScript, Java, Python, SQL

Backend & Databases: Node.js, Express.js, REST APIs, Mongoose, MongoDB, MySQL

Frontend: HTML, CSS, EJS, Bootstrap

Tools & CS Fundamentals: Docker, Git, GitHub, Postman, Data Structures and Algorithms, OOP, DBMS, Operating Systems, Computer Networks

Education

Shri Sant Gajanan Maharaj College of Engineering, Shegaon
B.E. in Information Technology

Aug 2023 – Jun 2027
CGPA: 8.76/10

Projects

High-Concurrency Ticket Reservation Engine

Node.js, Express.js, MongoDB, React, JWT, Gemini API, Swagger

Mar 2026 - Sep 2026

[GitHub Link](#)

- Architected an atomic movie reservation engine achieving **0% double-booking** under a **500-client burst** stress test (**386 req/sec throughput**) using compound unique indexes and adaptive **ACID transaction fallbacks**.
- Eliminated stuck seat-hold inventory by engineering an **automated expiration pipeline**, verified to release **100% of simulated abandoned holds** with **0 orphaned locks**, using scheduled background workers polling indexed expiration timestamps.
- Engineered an end-to-end checkout pipeline** with a server-synchronized **5-minute seat-hold state machine**, enabling immediate lock release and **instant ticket generation** via chained Mongoose population.
- Built secure **JWT authentication** with **RBAC** and bcrypt hashing, integrating an **LLM-powered recommendation engine** for personalized seat selection and intelligent suggestions.

API Dependency & Incident Monitoring Platform

Node.js, Express.js, PostgreSQL, JWT, React

Sep 2026

[GitHub Link](#)

- Engineered a **multi-level API health monitoring system** that aggregates monitor states into **dependency and application-level health**, enabling **traceability** from an affected application down to the specific failing monitor.
- Built a **fault-tolerant incident lifecycle system** using node-cron, PostgreSQL transactions, and **row-level locking**, applying consecutive-failure thresholds to detect outages, prevent duplicate incidents, and auto-resolve on recovery.
- Optimized scheduled health-check processing with due-monitor detection and **bounded concurrent execution**, boosting **scheduler throughput** while preventing duplicate processing and uncontrolled parallel requests.

Nestify | Full-Stack Property Rental Platform

Node.js, Express.js, MongoDB, EJS

Feb 2026

[GitHub Link](#)

- Architected a normalized one-to-many Listings–Reviews schema using Mongoose middleware and population queries, reducing data redundancy and improving page load efficiency.
- Implemented Cloudinary image management with automated transformations to reduce bandwidth usage, and engineered server-side authorization to enforce ownership-based access control across all write operations.

Work Experience

ApexaiQ, Shegaon

Feb 2026 - Mar 2026

Full-Stack Developer Intern

Python, FastAPI, Docker, Kubernetes, REST APIs

- Designed and deployed scalable **REST endpoints using FastAPI** to integrate third-party public APIs, implementing robust request validation, response parsing, and error handling to ensure reliable, high-throughput data pipelines.
- Containerized the application using **Docker** — writing Dockerfiles and configuring environment variables — to guarantee consistent, reproducible deployments across development and production environments.
- Applied **Kubernetes container orchestration** concepts to understand service scalability, load distribution, and high-availability deployment patterns.

Achievements

- Solved **800+ DSA** problems in **C++** across **LeetCode** (500+), **GeeksforGeeks** (140+), and **Coding Ninjas** (200+).
- Maintained **CGPA: 8.76** with consistent academic performance.

Leadership & Activities

Event Coordinator & Organizer | ACM Student Chapter

2024 – 2025

- Coordinated the end-to-end planning and execution of an **AI/ML workshop** for undergraduate students under the ACM Student Chapter.
- Led event promotions, registrations, and on-site logistics, driving participation from **100+ students**.