

Parmendra Panwar

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Anand Nagar, Bhopal (MP)

 Portfolio |  LinkedIn |  GitHub |
 LeetCode |  CodeChef |  GFG

Final year student specializing in AI/ML with proficiency in C++, Data Structures & Algorithms and Low-Level Design. Experienced in building maintainable full-stack web applications with attention to performance and clean code.

Experience

Medorn Ventures, Bhopal

January 2025 – September 2025

Software Developer Intern

- Refactored rigid system constraints by redesigning 10+ state-driven APIs within Redux architecture, converting static role-based permissions and fixed leave schedules into dynamic, user-customizable configurations.
- Resolved critical data mismatches in an ERP platform serving **75+ pharma businesses** by restructuring attendance flows and upgrading the expense module with automated, settings-driven reporting, significantly improving daily operations.
- Initiated a new product** from scratch by defining **folder structures and reusable components** for consistent development.
- Built Inventory and Supplier workflows, integrating client onboarding modules to accelerate lead-to-client conversion cycles.

Skills

Programming Languages: C++ (proficient), JavaScript (intermediate), Data Structures and Algorithms.

System Design: Object-Oriented Programming (OOP), SOLID Principles, Design Patterns, LLD, MVC Architecture.

Frameworks & Web: HTML, CSS, React.js, Express.js, MongoDB, Node.js, Redux, Jest & RTL, Tailwind, Git, GitHub, Docker.

Generative AI: Vector Databases, Retrieval-Augmented Generation (RAG), Agentic Workflow.

Competitive Programming & DSA: LeetCode Knight (Top 5%), CodeChef 3* Coder, 1200+ Solved Problems.

Projects

Trip-Linker | Geospatial Dynamic Itinerary Planner

 Live |  Frontend |  Backend |  Case Study

- Developed an itinerary planner generating multi-day routes based on distance using **A* Search** and a **geospatial grid system** optimized with MongoDB indexing and Redis caching to minimize re-computation and achieve a **10–23 ms latency**.
- Engineered **nearby search** using coordinate hashing and spatial grids, enabling activity discovery within 1.1km sectors in $O(1)$.
- Structured 2-role authentication (Business, Individual) using JWT stateless auth and Redux for global state management.
- Optimized UX by **non-blocking uploads** to keep the UI responsive, using custom-hook Toast system to guide users in real-time.
- Streamlined multi-image uploads (up to 7), built **automated cleanup** during edits and deletions to minimize storage overhead.

SaaS College Management System | Multiple Colleges in One Platform

 Live |  Monorepo |  Case Study

- Developed a multi-tenant SaaS platform with a centralized dashboard for managing college onboarding, staff records, fees, attendance, and administrative workflows within a unified infrastructure.
- Designed a productivity feature to categorize student cohorts by analyzing bi-weekly reports and attendance metrics.
- Implemented custom interceptors, ensuring **100% data isolation and secure** access for **5 user roles**.

Multi-Restaurant Order Management System

 GitHub

- Engineered an end-to-end order flow including Cart/Coupon logic, Payment integration, and Notification services.
- Applied 8+ design patterns, enabling seamless integration of new services without modifying existing code.

Overall Tech Stack: MERN, Redis, Docker, A* Search, Geospatial Grid, Gen AI, CI/CD, Monorepo, AWS, C++, SOLID Principles.

Education

Technocrats Institute of Technology

August 2023 – July 2027

Bachelor of Technology (B.Tech) – Computer Science Engineering AI & ML

Relevant Coursework: Software Engineering, Artificial Intelligence, Core CS, Data Structures & Algorithms, Distributed Systems.

Achievements

- Runner-up – Macky's Tech Coding Programming Contest (2024).
- Winner – Code Clash 2.0 Programming Contest (2025).
- Secured a Global Rank of 1846 out of 41,485+ participants in LeetCode weekly Contest 493 (Top 4.5%).

Extra-Curricular Activities

- Serving as a cadet in NCC for 2.5 years, assisting in parades with 50-member teams, enhancing discipline and teamwork.
- Leading a team of 250+ coders under the college coding community for over a year, organizing coding sessions and events.