

ABDUR RAHIM

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SUMMARY

3rd-year CSE student with a strong interest in **Full Stack Web Development**. Experienced in building end-to-end web applications with responsive user interfaces, secure backend systems, and efficient database management. Proficient in the **MERN stack** and designing scalable **RESTful APIs**.

EDUCATION

Indian Institute of Information Technology, Design & Manufacturing, Kancheepuram **Chennai, India**
Dual Degree (B.Tech + M.Tech) in Computer Science and Engineering *2023 – Present*
• Current CGPA: **8.02 / 10.0**

TECHNICAL SKILLS

Programming Languages: C, C++, JavaScript
Frontend: React.js, HTML, CSS, Tailwind CSS
Backend: Node.js, Express.js, RESTful APIs
Databases: MongoDB, MySQL, Redis
Tools: Git, GitHub, Postman, VS Code, Linux (Ubuntu)
Relevant Coursework: Data Structures & Algorithms, OOP, DBMS, Operating Systems, Computer Networks

PROJECTS

Pod Gear | [Live Demo](#) **Ongoing**

- Developing a specialized e-sports platform where professional players offer strategy packs and coaching for games like Clash of Clans and Brawl Stars to help users master advanced tactics.
- Tech Stack:** Next.js, Tailwind CSS, TypeScript, Express.js, MongoDB, Redis

VertexCode – Competitive Coding Platform | [Live Demo](#) **Dec-2025**

- Developed a full-stack coding platform similar to LeetCode with secure user authentication and authorization using JWT and cookies.
- Designed and implemented RESTful APIs for problem management, submissions, leaderboards, and user profiles.
- Integrated Judge0 API for real-time multi-language code execution and result evaluation.
- Implemented Redis-based token blocklisting to prevent unauthorized access after logout.
- Tech Stack:** React.js, Express.js, MongoDB, Redis, JavaScript

Uber-Ride Platform | [GitHub Code](#) **July-2026**

- Engineered an object-oriented ride-sharing backend using **C++17** and **CMake** for real-time domain orchestration.
- Applied **Strategy and Factory patterns** to decouple runtime fare processing (Surge/Pool) and vehicle generation.
- Modeled transit with a **Graph Adjacency List** to allow mid-ride stop insertions and live fare recalculation.
- Architected a state machine to track ride lifecycles with automated receipt generation and cancellation fees.
- Tech Stack:** C++, OOP, Design Patterns, CMake

ACHIEVEMENTS

- Secured Rank 4,548 among 28,000+ participants in LeetCode Weekly Contest 483.
- Solved **700+ Data Structures and Algorithms problems** on [LeetCode](#), [Strike](#) and [GeeksforGeeks](#).
- Qualified **JEE Advanced** and **JEE Main**.