

HARSHIT SINGH

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Education

Maulana Azad National Institute of Technology, Bhopal

Bachelor of Technology in Computer Science and Engineering

2022 – Present

CGPA: 8.46

School for Excellence, Dewas

MP Board (Class XII)

2020 – 2021

Percentage: 96.4%

School for Excellence, Dewas

MP Board (Class X)

2018 – 2019

Percentage: 95.8%

Projects

Appointy - Doctor Appointment Booking System

GitHub | Live Demo

Full-stack platform using React, Node.js, Express, MongoDB, JWT, Tailwind, and Cloudinary.

- Developed scalable system with 3 dashboards (Patient, Doctor, Admin) and 5 payment modes via Razorpay.
- Created 50+ REST APIs for authentication, scheduling, payments, and administrative operations.
- Architected 20+ modular UI components including appointments, dashboards, forms, and modals.
- Integrated comprehensive healthcare platform managing 25+ doctors across 6 specialties with automated scheduling.

Chatly - Real Time Chat Application

GitHub | Live Demo

Full-stack chat platform using React, Socket.io, Node.js, Express.js, Shad-CN, MongoDB, Mongoose, JWT.

- Built real-time chat application with Socket.IO for instant one-to-one messaging and file uploads.
- Implemented bidirectional client-server communication for instant message delivery without page reloads.
- Integrated secure file sharing with Mongoose, JWT authentication, and MongoDB for persistent storage.

Indore Route Pathfinder - Optimized Travel Route Adviser

GitHub | Live Demo

Advanced navigation platform using React, Vite, React Flow, Node.js, and MongoDB.

- Implemented Dijkstra's algorithm for shortest routes (distance & cost) across 25+ transit stations.
- Designed modular backend with 20+ automated deployments and bidirectional connectivity.
- Engineered 10+ API endpoints with average 750ms response times for real-time route calculations.

Technical Skills

Languages: JavaScript, C, C++, HTML, CSS, SQL

Frameworks: React.js, Node.js, Express.js, Tailwind CSS, Mongoose

Tools & Technologies: MongoDB, MySQL, Git, GitHub, VS Code, Socket.io, Redux Toolkit, JWT, Cloudinary

Coursework: Data Structures and Algorithms, Object Oriented Programming (OOPs), DBMS, Operating Systems, Machine Learning, Computer Networks

Hackathon Experience

Code With Cisco Code-a-thon

July 2025

Software Development and Network Architecture

- Secured position among top 75 participants from 30,000+ registrations for Cisco Global Hackathon and developed scalable hybrid quantum-classical network simulator using Python and NetworkX with qubit state management.
- Implemented modified Dijkstra's algorithm with quantum-inspired optimization for routing protocols, incorporating entanglement-based secure channels and fault-tolerant architecture addressing decoherence effects for 25+ users.

Academic and Extracurricular Achievements

- Solved 600+ Data Structures and Algorithms problems on *LeetCode*, *GFG*, and *CodeChef*.
- *Codeforces*: Gained max rating 1355 (Pupil) and solved more than 100 problems.
- Secured Global Rank 525 out of 26,000+ in LeetCode Weekly Contest 453 under handle *harshit0705*.
- Educational Codeforces Round 180 (Div. 2): Secured Global Rank 2,631 among 29,800+ participants.
- JEE Main 2022 All India Rank 8,525 (Top 0.85% among 1 million candidates).

Positions of Responsibility

Indian Society for Technical Education | Head - Media and Publicity

May 2024 – Present

Zenith (Programming Club of MANIT) | Core Member

March 2024 – Present

Indian Society for Technical Education | Sponsorship Executive

May 2023 – May 2024