

# Vasudev Katariya

Software Engineer | Java | Full Stack (MERN)

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## SUMMARY

Full-Stack Developer with hands-on experience in **Java**, **DSA**, and **MERN stack** development. Proficient in building **AI-integrated web platforms**, scalable **REST API** design, and **JWT-based authentication**. Solved **400+ problems** on LeetCode and deployed multiple production applications with optimized performance. Seeking software engineering roles to build high-impact, scalable technology solutions.

## EDUCATION

**Meerut Institute of Engineering and Technology** 2023 – 2027  
*B.Tech in Computer Science and Engineering* Meerut, India  
GPA: 8.35 / 10.0 (upto 5th Semester)

**Vardhman Academy** 2022 – 2023  
Class 12th — Percentage: 94%

**Vardhman Academy** 2020 – 2021  
Class 10th — Percentage: 94.6%

## SKILLS

**Languages:** Java | C & C++ (Basics) | SQL | JavaScript

**Frontend:** React.js | Tailwind CSS | HTML5 | CSS3 | Bootstrap

**Backend:** Node.js | Express.js | REST APIs

**Databases:** MongoDB | MySQL

**Core CS:** OOPs | DBMS | Computer Networks | Data Structures & Algorithms | Operating System

**Tools:** Git | GitHub | Postman | VS Code

**Soft Skills:** Leadership | Collaboration | Creativity | Project Management

## PROJECTS

**SymptoGenie** (AI Healthcare Assistant App) Jan 2026 – Apr 2026  
*Node.js, Express, React.js, Google Maps API* [Live Demo](#) | [GitHub](#)

- Engineered an **AI-powered symptom analysis engine** using weighted scoring and medical ontologies for common ailment triage.
- Built an **OCR/NLP pipeline** to extract and structure data from medical reports (PDF/Images) using Tesseract and spaCy.
- Developed scalable **Node.js/Express REST APIs** with modular routing, input validation, and centralized error handling.
- Integrated geolocation APIs for real-time hospital recommendations within a **15km radius**.
- Implemented **JWT authentication** and optimized MongoDB schemas with proper indexing to reduce query overhead.

**MelodyVerse** (AI Powered Music Streaming App) Mar 2026 – May 2026  
*Node.js, Express, React.js, Google Gemini API* [Live Demo](#) | [GitHub](#)

- Developed “MelodyBot,” a **voice assistant** powered by Google Gemini 2.5 Flash for natural-language music queries.
- Integrated **face-api.js** for real-time facial emotion detection, categorizing **8 core moods** to curate playlists.
- Engineered a server-side caching layer with Redis to minimize redundant API calls and reduce response latency.
- Built a **MERN stack streaming platform** with Context API for persistent playback with zero audio interruption.
- Designed a responsive, premium UI with real-time search indexing, achieving a **Lighthouse performance score of 95+**.

## ACHIEVEMENTS

- Solved **400+ problems** on LeetCode, strengthening problem-solving and algorithmic skills.
- Deployed **2 production-grade full-stack applications** with live demos, end-to-end authentication, and database integration.