

RITIK AGARWAL

Software Developer | B.Tech CSE @ VIT Bhopal

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EDUCATION

Vellore Institute of Technology, Bhopal — B.Tech in Computer Science & Engineering

2nd Year | Expected Graduation: 2028

TECHNICAL SKILLS

Languages: Java, JavaScript (ES6+), TypeScript, Python, C/C++, SQL

Frontend: React.js, Next.js, Tailwind CSS, HTML5, CSS3, Responsive UI/UX Design

Backend: Node.js, Express.js, REST APIs, JWT Authentication, WebSockets

Databases: MongoDB, MySQL, PostgreSQL, Firebase

Tools & Misc: Git, GitHub, VS Code, Linux, Postman, Figma, Vercel, Agile/Scrum

PROJECTS

Mindspace | *AI-Powered Productivity & Mental Wellness Platform*

Stack: React.js • Node.js • MongoDB • AI/NLP APIs

- ▶ Built a full-stack platform combining journaling, habit tracking, and AI-driven mood analysis to support users' mental wellness journeys.
- ▶ Designed an intelligent dashboard that surfaces personalized insights and weekly progress reports using NLP-based sentiment analysis.
- ▶ Implemented secure user authentication, real-time data sync, and a responsive, accessible UI supporting 100+ concurrent users.
- ▶ Optimised API response times by 40% through caching strategies and database indexing — smooth performance at scale.

StockSchool | *Interactive Stock Market Learning Platform*

Stack: Next.js • TypeScript • Tailwind CSS • Finance APIs • Chart.js

- ▶ Developed an end-to-end educational platform that teaches stock market fundamentals through simulated trading, quizzes, and live market data.
- ▶ Integrated real-time stock feeds via third-party Finance APIs, rendering dynamic candlestick charts and portfolio analytics dashboards.
- ▶ Built a gamified learning path system with progress tracking and leaderboards, increasing average user session duration significantly.
- ▶ Architected a clean, modular codebase with TypeScript across the full stack — zero runtime type errors in production.

RELEVANT COURSEWORK

Data Structures & Algorithms • Object-Oriented Programming • Database Management Systems • Operating Systems • Computer Networks • System Design (Self-Study)

ABOUT ME

Passionate CS undergrad who loves turning ideas into real, shipped products. Comfortable across the full stack — from pixel-perfect frontends to performant backend systems. Currently deep-diving into DSA and system design to crack top-tier SDE roles. Fast learner, team player, and always down to solve interesting engineering problems.