

# YUVRAJ SINGH

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## EDUCATION

<b>Vellore Institute of Technology, Bhopal</b> <i>Bachelor of Technology in Computer Science and Engineering</i>	Aug. 2022 – Oct. 2026 <i>CGPA: 8.35/10</i>
<b>Rishikesh Public School, Rishikesh</b> <i>Class XII (ISC)</i>	Aug. 2014 – May 2018 <i>80.04%</i>

## PROJECTS

<b>Exchange Platform</b>     <i>Next.js, TypeScript, Tailwind CSS, WebSocket</i>	September 2025
<ul style="list-style-type: none"><li>Engineered WebSocket connection with <b>Singleton pattern</b> to stream real-time data for 100+ crypto pairs from Backpack Exchange API</li><li>Built interactive <b>order book</b> and candlestick charts (Lightweight Charts) achieving 94% accessibility score</li><li>Developed backend services using Backpack's official API docs to implement real-time market data pipelines</li><li>Built CI pipelines for <b>Continuous Integration</b></li></ul>	
<b>Doodle Space</b>     <i>Next.js, TypeScript, Tailwind CSS, WebSocket, Prisma</i>	August 2025
<ul style="list-style-type: none"><li>Developed a collaborative <b>Excalidraw-like whiteboard</b> enabling real-time multi-user drawing and editing</li><li>Implemented <b>WebSocket-based sync layer</b> to broadcast shape, text, and cursor updates with low latency</li><li>Optimized rendering using <b>virtualized canvas layers</b> for smooth performance with complex drawings</li><li>Integrated <b>Prisma + PostgreSQL</b> backend to persist sessions, user states, and board history</li><li>Containerized the application with Docker and configured CI pipelines for reliable deployment</li></ul>	
<b>Contest Tracker Application</b>     <i>Next.js, React, TypeScript, Tailwind CSS, PostgreSQL</i>	July 2025
<ul style="list-style-type: none"><li>Developed a <b>full-stack Next.js application</b> aggregating upcoming and past competitive programming contests from Codeforces, CodeChef, and LeetCode</li><li>Implemented <b>contest filtering, bookmarking, and platform-specific views</b> to enhance user engagement and personalize contest tracking</li><li>Built an <b>admin interface</b> to manage solution links, including automatic YouTube solution retrieval for past contests</li><li>Designed a <b>responsive and intuitive UI/UX</b> with Tailwind CSS and shadcn/ui, supporting light/dark mode and mobile-first accessibility</li><li>Created backend APIs using <b>Next.js App Router</b> with PostgreSQL to handle contest data, bookmarks, solutions, and real-time updates</li></ul>	

## TECHNICAL SKILLS

**Languages & Frameworks:** Java, JavaScript (TypeScript), React.js, Next.js, Node.js, Express.js, Tailwind CSS, Jotai  
**Databases & Cloud:** MongoDB, Prisma, AWS, Docker, CI/CD  
**Tools & Others:** Git, Postman, Figma (Basic), OOP, Data Structures & Algorithms, Computer Networks

## ACHIEVEMENTS & CERTIFICATIONS

**Smart India Hackathon** — Competed in India's premier national-level hackathon  
**AWS Solutions Architect – Associate Certification Program** — Validated expertise in designing and deploying scalable, fault-tolerant applications on AWS  
**MERN Full Stack Certification** — Trained in building end-to-end web applications using MongoDB, Express.js, React, and Node.js  
**Version Control Certification (Meta)** — Practical expertise in Git and GitHub workflows  
**Android Mobile Application Development (Meta)** — Built and deployed Android applications using modern frameworks