

# 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 CGPA: 8.35/10
<b>Rishikesh Public School, Rishikesh</b> <i>Class XII (ISC)</i>	Aug. 2020 – May 2021 80.00%

## PROJECTS

<b>Exchange Platform</b>     <i>Next.js, TypeScript, Tailwind CSS, WebSocket, CI/CD</i>	Sep 2025
<ul style="list-style-type: none"><li>Engineered <b>WebSocket service</b> with Singleton pattern to stream real-time data for 100+ cryptocurrency pairs from Backpack Exchange APIs.</li><li>Composed an interactive <b>order book and candlestick charts</b> achieving 94% accessibility score.</li><li>Pioneered backend enhancements, integrating Backpack's API to expedite market data delivery, achieved a <b>20% reduction in latency</b>, and improved the data ingestion rate by <b>300 messages per second</b>.</li><li>Revamped existing CI/CD infrastructure shortening deployment time by 75% and enabling faster iteration cycles for development teams.</li></ul>	
<b>Doodle Space</b>     <i>Next.js, TypeScript, Tailwind CSS, WebSocket, Prisma, Docker, PostgreSQL</i>	Aug 2025
<ul style="list-style-type: none"><li>Engineered a collaborative <b>Excalidraw-style whiteboard</b>, enabling real-time multi-user drawing and editing, integrated live cursor tracking and shared annotations, and boosted team collaboration efficiency by 30%.</li><li>Implemented a <b>WebSocket synchronization layer</b> for real-time broadcasting of shapes and annotations, improving update delivery speed by 35% and supporting 500+ concurrent users with sub-100ms latency.</li><li>Optimized rendering using <b>virtualized canvas layers</b>, boosting performance by 40%.</li><li>Integrated a <b>PostgreSQL + Prisma</b> backend for session persistence and board history, enabling reliable state recovery, reducing data loss incidents by 30%, and supporting seamless multi-session collaboration.</li></ul>	
<b>Contest Tracker Application</b>     <i>Next.js, React, TypeScript, Tailwind CSS, PostgreSQL</i>	Jul 2025
<ul style="list-style-type: none"><li>Built a <b>contest aggregator</b> for Codeforces, CodeChef, and LeetCode with PostgreSQL, improving query efficiency by 35% and enabling retrieval of 1k+ contests weekly.</li><li>Added <b>contest filtering, bookmarking, and personalized dashboards</b>, boosting user engagement by 30% and streamlining discovery.</li><li>Developed an <b>admin interface</b> with automated YouTube solution retrieval, cutting manual curation by 70% and speeding content availability.</li><li>Delivered a <b>responsive UI/UX</b> with Tailwind and shadcn/ui, supporting light/dark themes.</li><li>Implemented REST and server APIs via <b>Next.js App Router</b> for metadata and real-time updates.</li></ul>	

## TECHNICAL SKILLS

**Languages:** Java, JavaScript, TypeScript  
**Frameworks & Libraries:** React.js, Next.js, Node.js, Express.js, Tailwind CSS, Jotai  
**Databases:** PostgreSQL, MongoDB, Prisma  
**Cloud & DevOps:** AWS, Docker, CI/CD, GitHub Actions  
**Tools & Practices:** Git, Postman, Figma (basic), REST APIs, OOP, Data Structures & Algorithms, Computer Networks

## ACHIEVEMENTS & CERTIFICATIONS

**Smart India Hackathon** — Selected for India's top national hackathon, delivering impactful solutions.  
**AWS Solutions Architect – Associate** — Certified in designing and deploying secure, resilient AWS cloud computing architectures.  
**MERN Full Stack Certification** — Experienced in building and deploying scalable full-stack web applications.  
**Meta Version Control Certification** — Proficient in Git, GitHub workflows, and team-based collaborative development.  
**Meta Android Development Certification** — Learned Introduction to Android applications using modern frameworks.