

YUVRAJ SINGH

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EDUCATION

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

PROJECTS

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

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.