

# YUVRAJ SINGH

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## SUMMARY

**Aspiring Full-Stack Developer** with hands-on experience building real-time web applications, collaborative systems, and Web3 DApps. Skilled in TypeScript, Next.js, Node.js, and modern cloud tooling, and eager to contribute in a challenging engineering environment.

## EDUCATION

<b>Vellore Institute of Technology</b> <i>Bachelor of Technology in Computer Science and Engineering</i>	Aug 2022 – Feb 2026 CGPA: 8.36/10
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## PROJECTS

<b>Exchange Platform</b>   <a href="#">🔗</a>   <i>Next.js, TypeScript, Tailwind CSS, WebSocket, CI/CD</i>	Nov 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></ul>	
<b>Doodle Space</b>   <a href="#">🔗</a>   <i>Next.js, TypeScript, Tailwind CSS, WebSocket, Prisma, Docker, PostgreSQL</i>	Oct 2025
<ul style="list-style-type: none"><li>Created 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>Streamlined 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></ul>	
<b>Solana Web3 DApp &amp; Launchpad</b>   <a href="#">🔗</a>   <i>React, Solana, Web3.js, SPL Token Standard</i>	Aug 2026
<ul style="list-style-type: none"><li>Spearheaded development of a <b>Solana Web3 DApp</b> using React, enabling wallet connections for token transfers and supporting 5 wallet types.</li><li>Implemented a custom SPL token creation launchpad interface using <b>@solana/web3.js</b>, facilitating blockchain interactions and handling transactions; achieved a 99.99% transaction success rate during initial launch.</li></ul>	

## TECHNICAL SKILLS

**Languages:** Java, JavaScript, Bash, TypeScript

**Frameworks & Libraries:** React.js, Next.js, Node.js, Express.js, Tailwind CSS, Jotai, Solana, ETH/BTC Whitepaper, SPL Token Standard, Web3.js

**Databases:** MySQL, PostgreSQL, MongoDB, Prisma

**Cloud & DevOps:** AWS (EC2, S3, Lambda, CloudFront), Docker, CI/CD, GitHub Actions

**Tools & Practices:** Neovim, Git, Postman, Figma (basic), REST APIs, OOP, Data Structures & Algorithms, Computer Networks

## OPEN SOURCE CONTRIBUTIONS

**n8n (Workflow automation platform)** — Improved a frontend enhancement PR, adding timezone-aware date formatting (`formatDateForUI`) participated in maintainer discussions and addressed review feedback.

**p5.js (JavaScript creative coding library)** — Enhanced p5.js documentation clarity for `Vector.fromAngle()`, improving usability for new contributors.

## ACHIEVEMENTS & CERTIFICATIONS

**Smart India Hackathon** — Proposed a citizen grievance forum app with location-based complaint tracking for Smart India Hackathon 2025.

**100xDevs Web Development—Devops—Blockchain Cohort** — Engineered and deployed completed project-based training in full-stack development, cloud deployment, CI/CD, and blockchain.

**Meta Version Control Certification** — Proficient in Git, GitHub workflows, and team-based collaborative development.