

YUVAJ 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

Vellore Institute of Technology

Aug 2022 – Feb 2026

Bachelor of Technology in Computer Science and Engineering

CGPA: 8.36/10

PROJECTS

Exchange Platform | 🐙 | *Next.js, TypeScript, Tailwind CSS, WebSocket, CI/CD*

Nov 2025

- 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**.

Doodle Space | 🐙 | *Next.js, TypeScript, Tailwind CSS, WebSocket, Prisma, Docker, PostgreSQL*

Oct 2025

- Created 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%.
- Streamlined 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%.

Solana Web3 DApp & Launchpad | 🐙 | *React, Solana, Web3.js, SPL Token Standard*

Aug 2026

- Spearheaded development of a **Solana Web3 DApp** using React, enabling wallet connections for token transfers and supporting 5 wallet types.
- Implemented a custom SPL token creation launchpad interface using **@solana/web3.js**, facilitating blockchain interactions and handling transactions; achieved a 99.99% transaction success rate during initial launch.

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.