Dhirendra Vikram Singh

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EXPERIENCE

Full Stack Developer Intern — April 2025 - June 2025
SkyFunnel.ai — *Noida, India*

- Developed type-safe **tRPC APIs** in Next.js/TypeScript, cutting client-server latency by 30%.
- Integrated **Redis** caching for high-traffic endpoints, reducing response times from 800 ms to <200 ms.
- Resolved critical bugs and optimized Prisma/PostgreSQL models, improving platform stability and boosting trial-to-paid conversions.

Website Developer Volunteer — April 2024 - October 2024
Ekohum Foundation — *Remote Work*

- Revamped the NGO's website from scratch, modernizing design and enhancing functionality.
- Improved navigation and accessibility, leading to a **40%** increase in user engagement.

TECHNICAL SKILLS

Frontend: HTML, CSS, JavaScript, TypeScript, React.js, Next.js, Tailwind
Backend: Node.js, Express.js, Hono.js, RESTful API, Websockets, GraphQL, tRPC, Redis
Developer Tools: Docker, Kubernetes, Kafka, Prometheus, Grafana, AWS, Git/GitHub
Databases: MongoDB, MySQL, PostgreSQL, ORMs

PROJECTS

Stock Exchange Platform | [Source Code](#)

Tech Stack: *TypeScript, Next.js, Node.js, Redis, Socket.io, Tailwind, Docker*

- A real-time stock exchange platform enabling secure order placement, efficient trade execution, and live market data visualization.
- Implements an **in-memory order book** and **Redis**-based queue system for high-speed trade matching.
- Features **Lightweight Charts** library for candlestick visualization and **WebSocket**-based live market updates.

Google Docs Clone | [Source Code](#) | [Live Site](#)

Tech Stack: *TypeScript, Next.js, Convex, Tailwind, ShadCN UI, Clerk*

- A **real-time collaborative document editor** supporting simultaneous multi-user editing and formatting.
- Engineered **real-time collaboration** using **Liveblocks** for presence detection and **Zustand** for efficient **global state** management, with **Convex** as the database.
- Secured user **authentication** with **Clerk**, integrated the **TipTap** for advanced rich-text editing capabilities.

2D Metaverse Project (Currently Building) | [Source Code](#)

Tech Stack: *TypeScript, React.js, Hono.js, PostgreSQL, Tailwind, Jest*

- Developing an interactive 2D metaverse where users can move avatars, interact with others, and explore virtual spaces in real-time.
- Implemented WebSocket for seamless user interaction and avatar movement synchronization.
- Implemented user authentication and space management features, ensuring fluid, multi-user engagement within the virtual environment.

EDUCATION

JSS Academy of Technical Education — Noida, India
Bachelor of Technology in Electronics and Communication Engineering — *2021-2025*