

YADURAJ SINGH

Full Stack Engineer · Next.js · Node.js · WebRTC · Docker · Firebase · Self-Hosted Infrastructure

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YadurajManu

EXPERIENCE

Lead Software Developer – Intern

Gautam Buddha University

6 Months, 2024

Greater Noida, UP

- Sole architect and lead engineer on a ground-up institutional ERP – designed the full system from ER diagrams and API contracts to production deployment.
- Delivered modules for student lifecycle management, automated attendance, fee ledger, timetable engine, and faculty/admin portals; **eliminated 100% of manual paper workflows** across departments.
- Engineered a **Node.js/Express** REST backend with JWT-secured, role-gated endpoints; React SPA frontend with dynamic dashboards per role. Iterated with stakeholders through weekly demos, cutting administrative overhead by an estimated **60%**.

PROJECTS

Aarogya Setu – Multi-Tenant Hospital SaaS

YadurajManu/NoneOfYourBusiness arogya.yaduraj.me

- Production-grade, **multi-tenant hospital automation platform** – OPD/IPD queues, EMR, appointment scheduling, billing, pharmacy inventory, diagnostic reports, and staff administration.
- Architecture: **Next.js 14 App Router** · TypeScript · **Prisma ORM** · PostgreSQL · Redis · **NextAuth.js** (JWT + OAuth2). Implemented **6-tier RBAC** with granular route-level and API-level permission guards.
- Containerised with **Docker + Docker Compose**; **GitHub Actions** CI/CD pipeline (lint → test → build → SSH deploy). **Self-hosted** on Linux: Nginx reverse proxy, SSL via Certbot, systemd service management.

MuhDikhai – Peer-to-Peer Video Chat Platform

YaduEnc/MuhDikhai batchit.yaduraj.me

- Full **Omegle-style anonymous video chat platform** – implemented the entire **WebRTC** peer connection lifecycle (offer/answer/ICE negotiation) manually over a custom **Socket.io** signalling server; no third-party video SDK.
- Stateful matchmaking queue achieving **sub-2-second stranger pairing**; handles concurrent sessions, graceful disconnects, and reconnection logic. Live on VPS with **Nginx + SSL**.

CineVerse – Social Film Tracking Platform

cine.yaduraj.me

- Production platform for cinema enthusiasts: watchlists, ratings, reviews, discovery feeds, and real-time community layer – integrated with **TMDB API** (500k+ titles).
- **Firebase** backend (Firestore, Auth, Cloud Storage); Next.js frontend with SSR. **Self-hosted** on Linux with Nginx and **PM2**; zero-downtime reloads and uptime monitoring.

TECH STACK

Next.js 14 React 18 TypeScript

Node.js Express tRPC

WebRTC Socket.io

REST / GraphQL

PostgreSQL Prisma ORM

Firebase / Firestore Redis

MongoDB MySQL

Docker Docker Compose

GitHub Actions CI/CD

Nginx PM2 Certbot / SSL

Linux systemd SSH

Git Turborepo Vercel

Tailwind CSS shadcn/ui

NextAuth.js Zod TMDB API

WHAT SETS ME APART

Self-Hosted, Not Just Deployed
Every major project runs on infrastructure I personally provisioned – Nginx, SSL, PM2, systemd.

WebRTC Without a Safety Net
Implemented the full ICE/STUN/TURN negotiation and signalling layer manually.

SaaS Architecture Solo
Designed multi-tenancy, RBAC, caching strategy, and CI/CD for a hospital platform from a blank repo. Shipped it. It runs.

Production Code at 20
Three live, production-grade applications. Real users, real uptime, real infrastructure.

EDUCATION

B.Tech – Computer Science & Engineering (AI)

Gautam Buddha University

2024 – 2028

Greater Noida, UP