NIKHIL KOSHTA

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Portfolio | GitHub | LinkedIn

EDUCATION

Jabalpur Engineering College, JEC (Estb. 1947) Jabalpur, India

B. Tech, Mechatronics Engineering Expected: May 2025

GPA: 7

EXPERIENCE

White Force | Link | **Web Developer Intern** *Socket.io, Websockets, MERN Stack*

June 2024 – July 2024

- Used **VideoSDK API** to develop a fully functional video-calling and live streaming feature **within 1 week**, supporting real-time communication **for up to 50 users**.
- Implemented scalable **HTTP Live Streaming (HLS) to handle 500+ concurrent viewers**, set for integration into the Astro Buddy platform.
- Collaborated with a **team of 3 engineers** to ensure seamless integration of communication features, **resulting in a 30% improvement in feature performance**.

Google Developer's Student Club, JEC | Link | **Web Developer** *HTML, CSS, JavaScript, GitHub*

Aug 2022 – Sept 2023

- Worked with a **team of 5** to build and deploy the official GDSC JEC website, achieving a **20% reduction in load time** and ensuring **100% cross-device compatibility**.
- Enhanced website performance and compliance with modern web standards, leading to a **25% increase in user engagement**.

PROJECTS

Medium | Link *Next, TypeScript, PostgreSQL, Prisma as ORM, Hono, TailwindCSS*

- ∗ Developed a blogging platform similar to Medium, allowing users to publish and manage blogs with an optimized UI. **Reduced load times by 25% through the use of PostgreSQL and Prisma**.
- ∗ Designed the architecture to scale efficiently, **capable of handling 100+ blog posts daily**.

PayMoney | Link *TailwindCSS, MongoDB, React, Nodejs*

- ∗ Built a payment transfer app with capability of **processing over 500 transactions daily**.
- ∗ Integrated real-time balance updates, **cutting transaction processing time by 20%**.
- ∗ Ensured the app can **process over 10,000 transactions per month** by utilizing MongoDB's scalability features.

Personal Bookshelf | Link *Next, Tailwind CSS, Open Library API*

- ∗ Created a bookshelf application where users can search and manage **over 10,000 books**.
- ∗ **Improved user retention by 30%** by implementing a notification system for successful book additions.
- ∗ Used the **Open Library API** to fetch book data, ensuring accurate and up-to-date information for users.

ChessCourses | Link *HTML, CSS, JavaScript, PHP*

- ∗ Developed a platform enabling chess Grandmasters and instructors to host and sell their courses online.
- ∗ Implemented PHP backend for form data handling, automating email notifications to the platform owner, **improving response time by 40%.**

TECHNICAL SKILLS

Languages: Java, C++, JavaScript, TypeScript
Libraries/Frameworks: Reactjs, Nextjs, TailwindCSS, Expressjs, Hono, Nodejs, Redux, Bootstrap
Databases: PostgreSQL, MongoDB, Prisma (as ORM)
DevOps: Docker, Kubernetes, AWS (EC2, S3, RDS), Nginx
Real-time Communication: Socket.io, Websockets, WebRTC
Developer Tools: Git & GitHub, VS Code, Postman, MongoDB Compass, Docker

ACHIEVEMENTS/HOBBIES

- Completed a **DSA with Java Bootcamp (Certificate)**: Solved 100+ problems
- Completed a **Full Stack Web Development Live Cohort (Certificate)**: 50+ hours of sessions, built 2 full-stack projects.
- Participated in **Internation Open GM Chess Tournament-2022 (Certificate)**
- **Event Organiser | JSSC Inter- School Chess Tournaments 2023**: Organized tournament for 50+ participants from 10 schools.