RAJ CHHALOTRE

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Education

Madhav Institute of Technology and Science, Gwalior	**2020 – 2024**
B.Tech, Information Technology (specialization in AI + Robotics)	*CGPA : 8.21*

Experience

Software Developer, Virtualify Software Consultancy, *Remote*   **Oct 2024 – Present**

- Migrated the high traffic news website **Free Malaysia Today** (with **10K+ daily users**) to **Next.js 15** with major **UI changes**, implementing **WebSub Hub** with **ISR** for real-time content updates, achieving **85%** server load reduction and faster Time-to-Interact. Optimized high-traffic pages achieving **60%** faster load times and lower bounce rate. (source- chartbeat and cloud run metrics)
- Implemented **CDN caching** by adding **Cloudflare CDN**, **load balancing,** and **efficient cloud Storage** for media assets—reducing server and database load while achieving **60%** faster content delivery.
- Engineered **UR AI Mastermindz** website using Next.js, **achieving 100/100 Lighthouse scores,** making it **faster** by optimizing Core Web Vitals, added **5+ JSON-LD schemas,** which improved **SEO crawlability by 75%.**

Web Development Intern, TechVeda Innovations, *Indore*   **Jan 2024 – May 2024**

- Led **full-stack development** using **MERN stack**, creating **100+ RESTful APIs** and designing **MongoDB** schemas, implementing efficient indexing and caching, achieving 99% uptime and <200ms API response times.
- Developed **pixel-perfect UIs** using **React.js**, **ShadCN**, and **Material-UI**, optimizing **responsiveness and reusability**, reducing **page load times by an avg of 40%**, and improving **user engagement by an avg of 35%** across projects.

Technical Skills

Languages and DataBases: JavaScript, TypeScript, C++, HTML, CSS, MySQL, MongoDB.

Frontend: NextJs, ReactJs, React Native, Redux, TailwindCss, Scss, Shadcn, Material Ui.

Backend: NodeJs, ExpressJs, GraphQL, REST Api, Postman.

Other Skills: Git, Bitbucket, CMS, Operating System, DBMS, OOPS.

Projects

Mini Loan Website | *ReactJs,, NodeJs, ExpressJs, MongoDB, TailwindCss*   Live   GitHub
- Engineered a **loan management system** using the **MERN stack**, implementing **JWT authentication** for **role-based access**. Optimized **loan processing and repayment logic**, achieving **query performance under 100ms** for seamless transactions.
- Implemented a **fully responsive design** and clean UI using TailwindCSS and SCSS, enhancing user engagement and satisfaction by **40%**.

CineMatch | *NLP, ML, Flask, Html, CSS, JS*   Live   GitHub
- Developed a **movie recommendation system**, boosting efficiency by **25%** using **NLP-based ML algorithms** with **CountVectorizer**, seamlessly integrated with a **Flask backend** for high performance.
- **Designed an interactive, fully responsive UI** and integrated the frontend with AI model, enhancing user engagement with **smooth animations** and intuitive interactions for discovering **similar movies.**

City Bank Website | *ReactJs, Firebase Database, Scss*   Live   GitHub
- Built an intuitive banking interface using React.js and **Scss**, implementing r**esponsive layouts** and interactive dashboards. Achieved 45% improved user engagement with **fluid animations**.
- Architected data layer with **Firebase Firestore**, managing **10,000+ transaction** records through custom hooks, enabling real-time balance updates and smooth transaction history.

Certifications and Achievements

- Selected for **Amazon ML Summer School 23.** Learned ML from Amazon's ML experts.
- Certificate of Excellence in **Data Structures and Algorithms** from Coding Ninjas.   Leetcode GFG
- Served as **Student Mentor** by mentoring peers and juniors in web technologies at college.