

# HARSHAL RANE

Full-Stack Developer — React.js • Node.js • Express.js • MongoDB

Mumbai, Maharashtra

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## Professional Summary

Full-Stack Developer with proven expertise in building high-performance, user-centric web applications using the MERN stack. Skilled in translating business requirements into scalable technical solutions through clean architecture, optimized APIs, and modern UI development. Passionate about delivering impactful digital experiences with measurable performance improvements and maintainable codebases.

## Technical Skills

- **Frontend:** React.js, Redux, Zustand, JavaScript, HTML5, CSS3, CreateJS, TailwindCSS, Bootstrap
- **Backend:** Node.js, Express.js, REST APIs, JWT Authentication, MongoDB, Mongoose, Socket.io, FastAPI
- **DevOps & Tools:** Git, GitHub, Postman, Render, Netlify, VS Code, Figma, Agile, Jira, Docker, Jenkins, Artifactory
- **Testing:** Jest, Mocha, Chai, Cypress
- **Other:** Chart.js, Responsive Design, Performance Optimization

## Professional Experience

### Mitr Learning & Media Pvt. Ltd.

Jul 2023 – Present

*Software Developer (React / Node.js)*

*Mumbai, Maharashtra*

- Engineered and deployed 10+ interactive e-learning games and microservices using **React.js**, **Node.js**, and **CreateJS**, improving performance by **45%** and reducing legacy Flash dependencies.
- Led the end-to-end development of a **content authoring platform** enabling live previews, collaborative editing, and instant publishing—cutting content creation time by **40%**.
- Designed and maintained modular, reusable UI components with **React Hooks** and **Zustand/Redux**, enhancing scalability and reducing repetitive code by **30%**.
- Integrated RESTful APIs and optimized server-client data flow, reducing latency and improving application responsiveness.
- Collaborated within an **Agile/Scrum** environment—participated in sprint planning, conducted code reviews, and ensured on-time delivery of milestones.
- Optimized animation and game rendering pipelines to consistently achieve **60+ FPS**, enhancing user engagement and retention.

## Key Projects

### Expense Tracker (MERN Stack)

Jan 2024 – Mar 2024

- Developed a full-stack expense tracking web application using **React.js**, **Node.js**, **Express.js**, and **MongoDB**.
- Implemented secure authentication and authorization using **JWT** and **bcrypt**.
- Created a dynamic dashboard with real-time visualization using **Chart.js** and CRUD functionalities for transaction management.
- Deployed application on **Render** (backend) and **Netlify** (frontend) with continuous integration pipelines.

### Real-Time Chat Application (MERN + Socket.io)

Jun 2023 – Jul 2023

- Built a responsive real-time chat app using **Socket.io** for event-based communication and presence tracking.
- Implemented **JWT-based authentication**, route protection, and efficient state management with **Zustand**.
- Styled UI with **TailwindCSS** and **DaisyUI**, achieving a modern and accessible interface.

## Education

### Datta Meghe College of Engineering, University of Mumbai

Aug 2019 – May 2023

*Bachelor of Engineering (B.E.) in Information Technology*

*Mumbai, Maharashtra*

### KCE'S Moolji Jaitha College

Jun 2018 – May 2019

*Higher Secondary Certificate (HSC), Maharashtra State Board*

*Jalgaon, Maharashtra*

## Certifications

Full Stack Development Course – GeeksforGeeks (2024)

React - The Complete Guide (incl. React Router and Redux) - Udemy (2023)

The Complete JavaScript Course: From Zero to Expert! – Udemy (2023)