

VIPUL WAGHMARE

FULL STACK DEVELOPER

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Full-Stack Software Engineer with 5 years of experience building and scaling high-performance web applications. Skilled in modern front-end frameworks (React, NextJs), back-end architectures (Node.js, NestJS, Flask), and database systems (MongoDB, MySQL). Strong focus on clean code, performance optimization, automated testing, and DevOps practices. Interested in cross-functional collaboration and mentoring junior engineers to deliver quality software at speed.

SKILLS

Languages	HTML, CSS/SCSS, JavaScript, TypeScript, NodeJs, Python
Library	React, Redux, NextJs, React Native, Tailwind, ExpressJs, NestJs, Flask
Software/Tools	Cursor, Copilot, Webpack, Babel, Vite, Postman, Docker, Git, Lerna, Nx, Firebase, Github Actions, Jenkins, Swagger
Database	MySQL, MongoDB, Redis
Testing	Jest, Cypress, Playwright

EXPERIENCE

ICoconnect Info Solutions, *Senior Software Developer* | Navi Mumbai

Oct 2020 - Current

- Developed complex, deeply nested forms using React Hooks; later migrated to React Hook Form to minimize re-renders, eliminating input lag and significantly **improving performance** on heavily nested fields.
- Optimized application performance by implementing lazy loading with React.lazy and code splitting, **reducing initial bundle size by 75%** and significantly improving load times.
- Migrated legacy **class-based components** to modern functional components, improving code maintainability and scalability; refactored shared logic from HOCs into reusable custom hooks.
- Migrated legacy codebase from Create React App (CRA) to Vite, resulting in significantly **faster build times by 50%** and integrated TypeScript support for improved developer experience.
- Collaborated with backend developers to integrate frontend components with RESTful APIs, leveraging Axios and React Query for efficient data **fetching, caching, and robust error and loading state management**.
- Migrated from Redux to Redux Toolkit, reducing boilerplate and streamlining the codebase; transitioned all API calls to RTK Query for efficient data fetching with built-in caching, error handling, and loading state management.
- Set up ESLint, Prettier, Husky, and TypeScript to enforce consistent coding standards, **improve code quality**, and streamline the development workflow
- Actively participated in regular **code reviews** to maintain code quality and promote team-wide knowledge sharing.
- Implemented component and **end-to-end testing** for React applications using Cypress and Playwright to ensure functionality and prevent regressions; achieved 100% test coverage and integrated test suites with **GitHub Actions** for continuous testing in the CI/CD pipeline.
- Collaborated with the UX team to define and implement design system tokens, ensuring **100% design-to-development consistency** across the application
- Integrated **monitoring and logging solutions** like Sentry to proactively track, debug, and resolve production issues, enhancing application stability and user experience.
- Implemented secure JWT-based authentication with refresh tokens, and built session-based login using Redis for scalable and efficient session management.
- Introduced connection pooling for PostgreSQL, **cutting server CPU usage by 20%**.
- Reduced API Response time by 25%** implementing caching using Redis
- Reduced **response size by 30%** via backend-level compression
- Authored comprehensive Swagger (OpenAPI) documentation to clearly define API contracts and improve developer onboarding and collaboration.
- Set up Prometheus alerts to detect API latency spikes before customer impact.

PROJECTS

Sorting Visualizer | [Link](#) | [code](#)

- Built an interactive sorting visualizer using React to demonstrate algorithms like Bubble, Insertion, Selection, and Merge Sort.

NestJs Backend | [Link](#) | [code](#)

- Developed a fully documented backend with NestJS and Swagger for scalable REST APIs.

Blogs | [Link](#)

- Technical blogs

EDUCATION

BE Mechanical, *Mumbai University*

2015 - 2019