

Rudra Pratap

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Experience

Project Engineer ([Link](#))

July 2022 – Jan 2024

Wipro Limited

Bengaluru, India

- **Designed, developed, and maintained** highly responsive and interactive React applications, delivering seamless user experiences across multiple platforms.
- **Integrated** RESTful APIs with frontend components, ensuring efficient data flow and implemented robust state management solutions using Redux for scalable and maintainable codebases.
- **Collaborated** closely with cross-functional teams including designers, backend developers, and QA engineers to deliver high-quality features on time, and conducted code reviews to uphold coding standards and best practices.
- **Optimized** application performance by leveraging React's advanced features such as hooks, lazy loading, and memoization, leading to faster load times and improved user engagement.

Education

Vellore Institute of Technology, Vellore, India

Bachelor of Technology (Computer Science Engineering)

July 2018 – July 2022

Projects

Workout Buddy | *JavaScript, Node, React, REST API, Redux, MongoDB, JWT*

- **Engineered** a robust full-stack web application leveraging Node.js to build a scalable RESTful API, and React.js to create a dynamic, responsive frontend user interface.
- **Enhanced** user authentication and authorization processes by implementing secure login and signup features using JSON Web Tokens (JWT), ensuring data protection and secure access.
- **Optimized** application performance by strategically applying React hooks such as useCallback and useMemo to minimize unnecessary renders, resulting in a smoother user experience.
- **Architected and managed** the state of the application effectively using Redux, facilitating consistent and predictable state transitions across the application.
- **Designed and integrated** MongoDB as the database solution, enabling efficient data storage and retrieval with robust schema design for workout tracking.

Payments Dashboard App | *React, React Router, SASS, Context API*

- **Architected** a sophisticated React application to simulate a payments dashboard, effectively handling and displaying sample JSON data to demonstrate key application features.
- **Designed and implemented** a robust state management system using Context API, orchestrating the flow of payments data and supporting dynamic features like time-frame selection (Weekly/Monthly/Daily), search functionality, and sorting mechanisms.
- **Developed** a responsive, user-centric interface with SASS, ensuring a seamless user experience across different devices and screen sizes, while maintaining a high standard of code readability and maintainability.
- **Integrated** React Router for intuitive navigation, providing users with a fluid and engaging experience as they explore various sections of the dashboard.

Blog App | *REST API, Node, Express, React, MongoDB*

- **Engineered** a comprehensive full-stack blog application by building a robust REST API using Node.js and Express, enabling seamless CRUD operations for managing blog posts, user profiles, and comments.
- **Optimized** server-side logic and database interactions with MongoDB, ensuring efficient data management and reducing response times by **35%**, leading to faster content delivery.
- **Enhanced** the application's performance by applying advanced React features such as hooks (useEffect, useState, useSelector, useDispatch), and optimizing component rendering using Redux middleware.
- **Developed** an interactive and dynamic frontend using React, leveraging Redux for efficient state management across the application, ensuring consistent data flow and enhanced user experience.

Technical Skills

Languages: Java, JavaScript, TypeScript, C/C++, SQL (MySQL, Postgres), JavaScript, HTML/CSS

Frameworks: React, Node.js, Express, JUnit, Tailwind CSS, Bootstrap, Material-UI

Developer Tools: Git, Google Cloud Platform, VS Code, Visual Studio, Eclipse

Libraries: Redux, React-Redux, Redux-toolkit, React-Router, Selenium WebDriver