

# Rudra Pratap

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## Experience

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### Project Engineer ([Link](#))

July 2022 – Jan 2024

*Wipro Limited*

*Bengaluru, India*

- **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

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### Vellore Institute of Technology, Vellore, India

*Bachelor of Technology (Computer Science Engineering)*

*July 2018 – July 2022*

## Projects

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### 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.

### Options Premium Dashboard | *TypeScript, React, Material React Table, Tailwind CSS, shadCN UI*

- **Engineered** a comprehensive frontend application powered by React, enabling complex and responsive UI and Material React Table for visualizing and managing Options Data.
- **Utilizing** Material React Table for displaying and managing the options data optimally and also adding features like filters, sorts and highlighting the premium with different colors and also highlighting the profit percentage with different colors for improved UX.
- **Optimized** client-side rendering, utilizing the concepts of memoization achieving minimization of unnecessary re-renders, and mutating the data for creating subRows by applying array concepts with ease and optimizing it further to display subrows.

### Payments Dashboard App | *JavaScript, React, React Router, SASS, Context API, pdfJS*

- **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.

## Technical Skills

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**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