

# Harsh Raj Kumar

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## Skills

**Languages:** JavaScript, Java, OOP, SQL

**Front-end Technologies:** HTML, CSS, Tailwind, Bootstrap, React.js, Redux

**Back-end Technologies:** Spring Boot, REST API, JSON Web Tokens

**Databases:** MongoDB, SQL

**Other Tools:** Git, RESTful APIs, AWS, Agile/Scrum Methodology, Linux, Microsoft VBA

## Work Experience

**Tata Consultancy Services, Kolkata**

Aug 2022 - Present

**System Engineer: Web Developer**

- Developed modular and reusable component libraries in React, ensuring consistent UI/UX across projects and reducing development time by 25%.
- Collaborated with four cross-functional teams, reducing bug resolution time by 40% with 10+ reusable components; managed 200+ tasks in Jira, improving project delivery time by 25%.
- Optimized RESTful APIs and integrated third-party solutions, resulting in a 30% faster response time and a 20% improvement in user experience, increasing customer engagement.
- Boosted search functionalities with debouncing techniques and efficient API call handling, resulting in a 15% performance boost and improved scalability.
- Improved website performance by 10% through event delegation and streamlined event handling, reducing memory usage and enhancing user experience..
- Leveraged React hooks (useState, useEffect, useCallback, useMemo) to streamline state management, achieving a 20% performance boost and supporting efficient workflows within an agile environment.
- Optimized React's useReducer to minimize redundant API calls, resulting in a 20% performance increase and enhancing scalability across the stack.
- Enhanced database efficiency with indexed MongoDB/MySQL queries, achieving 30% faster data retrieval and supporting high-performance backend solutions for real-time applications.
- Diagnosed and resolved high-priority code issues, improving system stability by 20% and ensuring smooth development across agile, cross-functional teams.

## Project

- **Portfolio:** Created a fully responsive portfolio application using React and Tailwind CSS with a Glassmorphism effect, with a loading time under 1 second and a 90%+ Lighthouse performance score.  
[ Source Code | Visit Application ]
- **Blog App:** Built a full-stack blog application with React, Node.js, Express, and MongoDB, supporting 50+ monthly users, secure authentication, and CRUD functionality for enhanced user engagement.  
[ Source Code | Visit Application ]
- **Todo App:** Engineered a to-do app managing over 1,000+ tasks efficiently with a user-friendly interface.  
[ Source Code | Visit Application ]
- **Netflix Clone:** Built a Netflix clone application using React, custom CSS, Firebase for authentication, and Redux. The application is fully responsive and user-friendly, allowing users to browse over 10,000 movie titles with smooth transitions and fast loading times.

## Education

**Aryabhatta Knowledge University, India**

Aug 2017 - Nov 2021

**Bachelor of Technology | 8.10**

Relevant Coursework: Object-Oriented Programming, Databases, Data Structures and Algorithms, and Operating Systems

## Achievements

- Awarded the Best Case Study, Best Team, and On The Spot awards at TCS for excellence in project delivery.
- Solved 550+ problems on LeetCode and earned 8 badges. [ Visit Profile ]