

ROBIN SINGH

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Profile Summary

- Full-stack developer with a strong focus on **front-end technologies** and expertise in **React.js**, creating scalable applications.
- Skilled in optimizing web applications for **performance** and **responsiveness**, with a focus on user-centric designs.
- Proven ability to collaborate effectively in team environments, manage time efficiently, and troubleshoot technical challenges.
- Expertise in **React.js**, **Node.js**, **MongoDB**, and using **Agile methodologies** to deliver high-quality projects on time.

Technical Skills

- | | | | |
|------------|--------------|-------------|----------------|
| • React.js | • HTML | • CSS | • JavaScript |
| • Node.js | • Three.js | • MongoDB | • Tailwind CSS |
| • Next.js | • Express.js | • Bootstrap | • Material UI |

Experience

Technic Infotech - Software Engineer

August 2024 – Ongoing

- **Collaborated with a team of 5+ developers**, showcasing strong communication skills to implement features that engaged users.
- **Optimized React code**, reducing server load by 20%, demonstrating **problem-solving** and technical **troubleshooting** abilities.
- Focused on front-end optimization with **responsive design**, improving user interaction and reducing bounce rate by 15%.
- **Spearhead UI development** for four websites, designing and integrating intuitive interfaces for Home, Blogs, About Us, Contact Us, Login & Signup and FAQs pages using Next.js and Tailwind CSS **enhancing user engagement by 20%**.
- **Resolved 5% of critical bugs** and optimized application performance, improving load times and reliability by leveraging modern JavaScript frameworks and Agile methodologies.
- **Modernized legacy codebase** by migrating to the latest tech stack, boosting development efficiency and maintainability.

Projects

Netflix Clone | *React.js, HTML, CSS, React Router, Firebase Authentication & Firebase Realtime Database*

(Username: robinsingh19 — Password: Robin@123) | [View Website](#) | [GitHub Repository](#)

- Built a dynamic movie platform with React.js, integrating **TMDb API** for diverse movie content.
- Implemented **React Router** for seamless navigation, improving overall app flow and user experience.
- Implemented **Firebase Authentication** to manage secure user sign-up, login and session handling in the Netflix clone.
- Used **Firebase Firestore** to store and retrieve user-specific data such as email and name with different ID in real time

Sea Freight Load Calculator with 3D Visualization | *React.js, Node.js, Express.js, MongoDB, Three.js, JWT Token, Tailwind CSS, REST API & Google OAuth* | [View Website](#) | [GitHub Repository](#)

- **Designed and implemented** a React-based frontend with Three.js to create an interactive **3D visualization** of cargo packing in shipping containers, enhancing user understanding of load optimization.
- **Developed a Node.js/Express backend** with MongoDB to manage cargo item data and user registration, incorporating bcrypt for secure password hashing and sequential ID generation for users.
- **Integrated Google OAuth** for user authentication, enabling seamless registration while storing user details (full name, email, mobile, city) in MongoDB with server-side validation
- **Built a responsive UI** with reusable components (e.g.- Input, Button, Table) using Tailwind CSS, ensuring a consistent and user-friendly experience across devices.
- **Optimized container packing logic** using a greedy algorithm to calculate maximum item fit and best orientation, providing accurate CBM (Cargo Volume) and container requirement calculations.

Education

Chandigarh University, Mohali

Bachelor of Engineering- (Chemical Engineering)

Certifications

- Programming with JavaScript and Node.js – Jovian – [View Credentials](#)