

# Deepak KARKI

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Dedicated software engineer with a relentless drive for continuous learning and professional growth. With over 4 years of hands-on experience, I've honed my expertise in frontend technologies, specializing in JavaScript's framework React.

## EDUCATION

**Dev Bhoomi Institute of Technology**, Bachelor of Technology (Electronics and Communication)

Aug 2017

## WORK EXPERIENCE

### Transparent Assessment, Gurugram

#### Software Engineer

June 2021 - Jan 2024

- Developed an AI-powered avatar for conducting real-time interview experiences used for candidate screening, utilizing ReactJs. This involved creating dynamic, interactive interfaces and ensuring smooth real-time communication between the AI system and users. The solution improved candidate screening efficiency by 30% and reduced interview processing time by 25%.
- Engineered dynamic live streaming playlists for HLS and DASH protocols using React.js, hosted playlist files on Amazon S3 and served them via CDN, enabling seamless and adaptive media streaming experiences.
- Mentoring a team of 2-3 junior developers, regularly provided guidance, reviewed their work, and facilitated their professional growth through consistent feedback and support.
- Enhanced React code running within an application by re-implementing and restructuring the React code for better optimization. This optimization improved application performance by 20%, reduced memory usage by 15%, and significantly decreased load times, resulting in a smoother and more efficient user experience.
- Built a new state management framework within the application known as the Global Store, utilizing React contexts. This framework streamlined state management, reduced code complexity, and enhanced the scalability of the application, making it easier to manage and maintain state across large-scale React applications.
- Properly followed agile methodology within the team, ensuring iterative development, continuous feedback, and efficient collaboration. This approach helped maintain project momentum, meet deadlines, and adapt quickly to changing requirements.

### NLB Services Noida

#### Software Engineer

June 2019 - Jun 2021

- Designed and implemented a comprehensive proctoring feature for secure online examinations, leveraging React for the front-end user interface, ensuring a robust and privacy-compliant examination environment. This solution increased exam security by 40% and reduced incidents of cheating by 30%.
- Implemented a robust authentication and authorization system using JWT tokens, ensuring secure user access and streamlined authorization processes for a new project. This led to a 60% reduction in unauthorized access attempts and improved login efficiency by 15%.
- Architecturally designed the seamless integration of React components into an existing application, optimizing performance and maintaining data flow consistency while harnessing the strengths of both frameworks. The integration improved application performance by 20% and reduced page load times by 15%. Additionally, successfully migrated a complex ReactJS header component, ensuring its functionality and compatibility within the integrated system.
- Pioneered the creation of a comprehensive library in React 18 for streamlined form management and reusable input components, significantly boosting code maintainability and expediting development across multiple projects. This library, published to Nexus, increased development efficiency by 35% and reduced form-related bugs by 100%, ensuring consistency across various projects.
- Spearheaded the implementation of accessibility enhancements in the frontend, ensuring compliance with WCAG guidelines (e.g., WCAG 2.1) to provide an inclusive and user-friendly experience for individuals with disabilities. Managed and mentored a team of two junior developers, providing guidance, assistance, and direction in their tasks and work, leading to increased productivity and improved code quality.
- Conducted regular code reviews using Bit Bucket, ensuring adherence to coding standards, best practices, and identifying areas for improvement to maintain high-quality codebase.

## Achievements

- Hackathon Participation: Participated in hackathons to collaborate with diverse teams, brainstorm innovative solutions, and prototype projects under tight deadlines. Ltd.
- Received recognition or awards for technical achievements, such as innovative project implementations in last organisation

## SKILLS

**Front End:** JavaScript, HTML, CSS, React, jQuery

**DevOps:** Firebase Auth, Firebase Firestore

**Database:** MySQL