

# KARANDEEP SINGH

## Senior Frontend Engineer

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Experienced Front End Engineer with **4 years** of experience in designing and developing high-performance applications, Using **React.js**, **Next.js** and **Javascript**. I bring a passion for **performance optimization** and **clean design**, with a solid understanding of modern frameworks and web architecture.

### SKILLS

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**Frontend Development** - React.js, Next.js, JavaScript, TypeScript, HTML, CSS, SASS

**State management** - Redux, Redux Toolkit, Pub-Sub Architecture

**Backend Development** - Node.js, Express.js, Golang

**API Integration** - GraphQL, RESTful APIs, Server-Sent Events (SSE), WebSockets, JSON

**Build & Deployment** - Webpack, Rollup, GitHub, AWS, CI/CD Pipelines

**Testing & Debugging** - Chrome DevTools, Lighthouse, Jest

**Designing** - Figma, UX Design, Responsive Web Design

**AdTech & Monetization** - Prebid.js, Stripe.js, Freewheel, OMID SDK

**Other** - Video Js, CKEditor, Data Structures & Algorithms

### WORK EXPERIENCE

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#### VIEWLIFT (Nexgen Tech Solutions)

Curugram, Haryana

##### Senior Software Developer

2021-Present

- **Scalable Codebase & Client Onboarding** - Developed a modular codebase, enabling onboarding of new clients, collaborated with architectural and cross-platform teams using **React.js**, **Server-side rendering**, **GraphQL**, **TypeScript**, **Next.js** and **Server Sent events**.
- Incorporated **SSE(Server Sent Events)** for real-time live score updates and session management, reducing update latency and improving engagement.
- **Leadership & Technical Mentorship** - Led a team of 5 developers in delivering high-impact projects, collaborated with cross-functional teams in Agile & Scrum environments
- Conducting **training sessions** on emerging technologies for new hires. within the organization.
- **Performance and Application Optimisation** - Implemented **Progressive Web App (PWA)** features for better caching and faster load times.
- Interfaced Persisted **GraphQL APIs** to eliminate data over-fetching, significantly reducing server load.
- Revamped **dynamic onboarding** processes for users to enhance user experience, reducing the time for user onboarding.
- **Improved** Core Web Vitals by reducing Cumulative Layout Shift (CLS) by 0.7, optimizing server-side rendering (SSR), and implementing **code-splitting** and **lazy loading**.
- **OTT & Video Player** - Developed a **video player** with ad integration, live streaming support, and Digital Rights Management (DRM), enhancing accessibility for over 30 million users globally. Utilized **React.js**, **JavaScript**, **Webpack**, **Video.js**, and **Freewheel**.
- **Ad Tech & Revenue Optimization** - Implemented **Prebid Adapter (PAL) SDK**, enabled header bidding for the website, allowing multiple ad exchanges to bid for ad space in real-time, increasing ad revenue.
- Implemented **OMID SDK** to enhance ad tracking, leading to significant improvement in campaign effectiveness.

#### Delhi Government

Curugram, Haryana

##### Software Engineer Intern

Dec 2020

- **Constructed** the primary website for DBSE to manage notices, academic papers, student resources, and teacher resources. Utilized React.js, JavaScript, and Bootstrap.

## PROJECTS

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- **VIEWLIFT (Nexgen Tech Solutions)** - Contributed to multiple high-impact projects in **React.js** and **Next.js**, with a focus on performance, modular architecture, and reusability.  
**Key Projects** - [MSN](#), [USA Networks](#), [MyOutdoorTv](#), [Hoichoi](#), [Root Sports Network](#)
- **Overwatch TS** - Architected and developed Overwatch TS, a lightweight React state management library featuring pub-sub, middleware, SSR, and batching with a minimal API. Built on the singleton design pattern for React.js & Next.js. [Github](#) - [Docs](#) - [NPM](#)
- **DRM Encoder** - Effectively implement DRM encryption while preventing unauthorized access. using Widevine & Raw Key, Tech used **Next Js**, **AWS** and **Golang** - [Live](#) - [Code](#)
- **Monetisation NPM Package**: Built a plug-and-play package for integrating payments with a configuration-driven UI, and integrated **WebSocket** to handle webhook responses from the backend. Made use of - **React Js**, **Stripe**, **Js**.

## EDUCATION

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### Bachelors of Electronics & Communications

New Delhi

GGSIU - Guru Gobind Singh Indraprastha University

## LEADERSHIP & AWARDS

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- Awarded Certification of Excellence by Professor Rachna Garg, WIE AG Delhi Section.
- Led Web Development efforts as Web Developer Lead at the campus IEEE society, GTBIT, New Delhi.
- Directed technical events as Technical Event Manager at IEEE WIE Delhi Section, Delhi.
- Conducted 20+ technical workshops and sessions.