

KARANDEEP SINGH

Senior Frontend Engineer

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Frontend Engineer with 5+ years of experience building scalable, high-performance OTT and web platforms using React.js, Next.js, and JavaScript. Skilled in performance optimization, clean architecture, and delivering secure, engaging user experiences.

SKILLS

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

State management - Redux, Redux Toolkit, Overwatch

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

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

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

Analytics - Google Analytics, Datadog, Adobe Media Analytics & Comscore

Testing & Debugging - Chrome DevTools, Lighthouse, Jest

WORK EXPERIENCE

VIEWLIFT (Nexgen Tech Solutions)

Curugram, Haryana

Senior Software Developer

2021-Present

- **Scalable Codebase & Client Onboarding** - Built a modular, scalable codebase alongside architecture and cross-platform teams, powering a Platform-as-a-Service for OTT platforms including (CNBC, LIVGolf, MOTV, NESN, MSN, Dirtvision) and more, through scalable solutions and tailored feature enhancements.
- **OTT & Video Platform Development** - Engineered video playback with ad integration, DRM, live streaming, and Video.js to deliver secure, high-quality experiences to 30M+ users globally.
- **Real-Time Data & User Experience** - Implemented Server-Sent Events (SSE) for live score updates and session management, improving real-time engagement, and revamped dynamic onboarding to streamline user workflows.
- **Performance Optimization** - Enhanced application speed with PWA capabilities, code-splitting, lazy loading, and optimized SSR utilization. Leveraged persisted GraphQL queries to prevent over-fetching, lower server load, and enhance Core Web Vitals.
- **Monetization & Payment Integration** - Developed a plug-and-play monetization NPM package featuring Stripe-based payments, configuration-driven UIs, and WebSocket integration in React.js.
- **Analytics** - Integrated Adobe Analytics and Media Analytics for granular video interaction tracking.
- **Leadership & Knowledge Sharing** - Led a team of 3 developers to deliver high-impact projects and conducted regular knowledge-sharing training sessions.

PROJECTS

- **State Management Library** [[NPM](#) - [Github](#) - [Docs](#)] - Architected and developed **Overwatch TS**, an open-source React state management library built on the singleton design pattern for React.js & Next.js.
- **DRM Encoder** [[Live](#) - [Code](#)] - Implemented DRM encryption using Widevine and raw key methods to prevent unauthorized access. Built with **Next.js, AWS, and Golang**
- **Stash Share** [[Marketplace](#) - [Code](#)] - VS Code extension for sharing Git stashes seamlessly across machines.

LEADERSHIP & AWARDS

- **Quarterly Best Performer at Nexgen Tech Solutions** — *Recognized twice* for shipping key features and confidently leading client-facing demos.
- **Certificate of Excellence**, IEEE WIE AG (Delhi Section) – Academic and technical leadership.

EDUCATION

Bachelors of Computer Science and Engineering
GGSIPU - Guru Gobind Singh Indraprastha University

New Delhi