Nikhil Rai

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Summary

Senior Frontend Engineer with **2.5+ years** building scalable, high-performance web applications serving **10M+ users**. Skilled in **TypeScript**, **React**, and **Next.js** with proven success **leading frontend teams** and driving **revenue growth**.

Experience

Limeroad *Gurgaon*
Software Development Engineer 2 *Nov 2022 – present*

Universal Frontend Application Migration
- **Led 5-engineer team** migrating legacy Rails frontend to **React/TypeScript**, serving **1M+ daily active users**.
- **Architected monorepo** with Next.js and Expo app using react-native, achieving **75% cross-platform code** usage.
- **Accelerated feature rollouts by 3x** across platforms with **OTA updates**, bypassing app store approval delays.
- Orchestrated **containerized deployment** using Docker/AWS ECR with automated CI/CD, enabling **auto-scaling**.
- **Cut runtime-errors by 80%** using TypeScript and **enforced code standards** via automated linting/formatting.

Web Performance Optimization
- **Optimized event logging** through batching & rate limiting using web workers, processing **100K+ daily events**.
- Built **lazy-loading image component** with shimmer effects and priority hints, reducing **LCP from 3.8s to 2.3s**.
- Implemented **critical CSS inlining** with Ruby build tasks and deferred css downloads, improving **FCP by 800ms**.
- **Reduced initial bundle size by 100KB** and **TTI by 25%** using Vite code splitting for non-critical JavaScript.

E-commerce Frontend Platform
- Engineered **mobile-first, responsive** product, cart & checkout pages with scalable architecture and **99.8% uptime**.
- **Integrated 5+ payment gateways** with unified API design, processing **50K+ daily transactions** seamlessly.
- **Boosted conversion by 9%** and reduced **cart abandonment to 65%** via UX optimization and user exit tracking.
- **Improved login success rates by 15%** implementing Truecaller SDK and seamless **OTP auto-read** functionality.
- Built **SPAs** with **Progressive Web App** features like offline caching, increasing repeat sessions by **12%** on mobile.

Technical Skills

Frontend Development: React, TypeScript, JavaScript (ES6+), Next.js, React Native, HTML5, CSS3, Tailwind CSS

Build Tools & DevOps: Vite, Webpack, Turborepo, Docker, AWS (ECR, S3, CloudFront), GitHub Actions, CI/CD

State Management & APIs: Context API, React Query, Redux, RESTful APIs, GraphQL, WebSockets, tRPC

Performance & Testing: Core Web Vitals, Lighthouse, Web Workers, Service Workers, Jest, React Testing Library

Education

Delhi Technological University *New Delhi*
B.Tech in Mechanical Engineering (Minor in Computer Engineering) *July 2019 – June 2023*
- CGPA: **9.30/10.00**, ranked **3rd** in the Department

Achievements

- Awarded **Excellence Award** at **Limeroad** for leading web performance optimization, boosting retention by **18%**.
- **Smart India Hackathon finalist** for building a maritime **search & rescue** solution for the **Indian Coast Guard**.
- Secured **2nd place** among **500+ teams** in **Vihaan 2021**, a national hackathon by **IEEE DTU**, leading a team of **4**.
- Placed in the top **3.7 percentile** out of **1.2 million candidates** who appeared for **JEE Mains 2019** across India.