

# Nikhil Rai

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## Summary

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Full Stack Software Engineer with **2.5+ years** building scalable, high-performance web applications serving **10M+ users**. Frontend-focused expertise in **React, TypeScript, Next.js**, and **performance optimization** with strong **backend integration** capabilities. Skilled in **Java, Spring Boot**, and **system design** with proven success **leading teams** and driving **user engagement**.

## Experience

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### Limeroad

Software Development Engineer 2

Gurgaon

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.
- **Rewrote backend APIs** according to new API contracts, ensuring seamless integration with modern frontend architecture.
- **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.

#### Ads Monetization Dashboard

- **Spearheaded** development of vendor-facing analytics dashboards enabling **5K+ vendors** to manage premium advertising spots.
- Designed intuitive bidding interfaces with real-time updates, **increasing vendor engagement by 35%** and **revenue by 12%**.
- Built comprehensive analytics visualizations showing bidding performance, ROI metrics, and competitive insights.
- Implemented responsive design patterns ensuring seamless experience across desktop and mobile devices.
- Integrated real-time bidding system with **Vickrey auctions** backend using WebSocket connections for live updates.

## Technical Skills

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**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

**Backend Integration:** Java (8+), Spring Boot, Node.js, Kafka, MySQL, MongoDB, Redis, AWS, Microservices

## Education

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**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

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- Awarded **Excellence Award** at **Limeroad** for leading web performance optimization, boosting retention by **18%**.
- **SIH finalist** for building a Deep learning based maritime **search & rescue** solution for the **Indian Coast Guard**.