Nikhil Rai

✉ nikhil.fe.careers@gmail.com 📞 073034 87619 🔗 nikkurai9999

Summary

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

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

Server-2-Server Payment Service & Integration

- Built **payment-gateway agnostic** service with Spring framework and strategy pattern, supporting **5+ providers**.
- **Enhanced system resilience** with **circuit breakers**, reducing failures by 90% and achieving a **99.2% success rate**.
- Optimized payment flows with **Server-Sent Events**, **reducing server load by 23%** and improved user experience.
- Introduced the **'Pay with Rewards'** feature, boosting **checkout conversions by 8%** and **retention by 15%**.
- Built seamless payment UI with live status tracking and failover flows, **increasing successful checkouts by 5%**.

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

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

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%**.
- **SIH finalist** for building a Deep learning based maritime **search & rescue** solution for the **Indian Coast Guard**.