



Hritwik Tiwary.

UI / FRONTEND ENGINEER · REACT & NEXT.JS
PERFORMANCE SPECIALIST

Kolkata, India · Remote

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hritwik-frontend-portfolio.vercel.app

Frontend / UI Engineer with **3.5+ years** of professional experience at **EY** designing, building, and optimizing React & TypeScript interfaces for enterprise and SaaS products. Specializes in translating complex business requirements into responsive, accessible UI architecture, and in profiling & eliminating rendering bottlenecks using React Profiler, Chrome DevTools, and Core Web Vitals. Comfortable owning a component from architecture through code review, and communicating technical trade-offs clearly across product, design, and engineering.

3.5+ yrs

REACT & NEXT.JS EXPERIENCE

3675→2.3ms

BEST RENDER OPTIMIZATION

2000→140ms

SAAS DASHBOARD OPTIMIZATION

100/100/100

LIGHTHOUSE SCORE SHIPPED

Experience

Software Engineer, Frontend — EY

Jan 2023 – Jun 2026 · Kolkata, India

Frontend Practice — React.js & Next.js, Enterprise & SaaS Products

- Designed, developed, and shipped new UI features and reusable React/Next.js components across enterprise and SaaS products, from requirements through production release.
- Collaborated with product and design teams to translate requirements into responsive, accessible interfaces.
- Audited apps with Chrome DevTools, React DevTools, and Lighthouse to diagnose and fix rendering bottlenecks end-to-end.
- Improved rendering via **component restructuring** and memoization (useMemo, useCallback, useDeferredValue); cut JS payloads with **code-splitting**.
- Re-engineered enterprise dashboards' search, filtering, table rendering, pagination, and virtualization for 10,000+ record datasets.
- Analyzed Core Web Vitals and partnered cross-functionally to improve load performance, interaction responsiveness, and layout stability.
- Reproduced and root-caused customer-reported performance issues; documented findings and recommendations for engineering stakeholders.
- Participated in architecture and code reviews; **mentored junior engineers** on frontend development and profiling workflows.

Selected Work & Case Studies

Frontend Performance Portfolio — Personal Portfolio Site ↗

PORTFOLIO SITE

Designed and built this portfolio end-to-end — animated case-study system covering five shipped products, Framer Motion micro-interactions, and a performance-tuned Next.js 16 architecture aimed at near-perfect Lighthouse scores.

Next.js 16 React 19 TypeScript Tailwind CSS Framer Motion

Live Demo GitHub Repo

PathPilot AI — Full-Stack AI Product ↗

AI PRODUCT

Built an AI career-matching copilot end-to-end — chat or resume intake, Gemini-ranked role matches with plain-English reasoning, AI-drafted outreach pitches, Supabase auth with Realtime status streaming, and a Framer Motion/GSAP animation layer.

Next.js 16 React 19 Gemini AI Supabase Framer Motion

Live Demo Demo Video GitHub Repo

Nova Fiber — ISP Onboarding & Signup ↗

PRODUCT UI

Designed and built a fiber ISP marketing site paired with a five-step signup wizard — address availability check, plan & add-on selection, install scheduling, account creation, and order confirmation — as one continuous, single-session flow.

React TypeScript Vite Tailwind CSS Framer Motion

Live Demo Demo Video Case Study PDF GitHub Repo

KitchenFlow — Full Product Build ↗

PRODUCT UI

Designed and built a 6-module kitchen operations dashboard from the ground up — live ticket board (New → Fire → Plating → Ready), ticket detail panel, station load intelligence, crew management, and service analytics.

React Next.js TypeScript Tailwind CSS

Live Demo Demo Video Case Study PDF GitHub Repo

RevenuePulse ↗

PERFORMANCE

Diagnosed and resolved rendering bottlenecks in a SaaS revenue analytics dashboard's KPI loading and chart rendering.

React Profiler useMemo useDeferredValue

2000ms → 140ms render time

Case Study PDF Demo Video

SupportDesk ↗

PERFORMANCE

Optimized an enterprise ticketing platform's search, filtering, and table rendering across 10,000+ ticket records.

Debounced Search Pagination Memoization

3675ms → 2.3ms render time

Case Study PDF Demo Video

Skills & Tools

- Languages** JavaScript (ES6+), TypeScript, HTML5, CSS3
- Styling / UI** Tailwind CSS, Component-Driven Development, Design Systems
- Tooling** Chrome DevTools, Lighthouse, Git, REST APIs, Supabase

- Frameworks** React.js, Next.js, Redux Toolkit
- Performance** React Profiler, Core Web Vitals, Code Splitting, Memoization
- Practices** Agile/Scrum, Accessibility (WCAG), Cross-Browser Compatibility, Code Review, Mentoring

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Full portfolio & live case studies — hritwik-frontend-portfolio.vercel.app

References available on request