

TUSHAR BAJAJ

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SUMMARY

Front-End Developer skilled in building fast, accessible, and responsive web applications using React, Next.js, TypeScript, and Tailwind CSS. Focused on clean UI/UX, performance optimization, and scalable architecture with a strong grasp of modern development workflows and cross-functional collaboration.

SKILLS

Languages & Markup: HTML, CSS, JavaScript (ES6+), TypeScript, SQL

Frameworks & Libraries: React, Next.js, Redux, Tailwind CSS

Tools & Technologies: Git, GitHub Actions, Vercel, Stripe API, Sanity CMS, React Query, Axios

Databases & Backends: MongoDB, Supabase, MySQL

EDUCATION

Vancouver Island University <i>Bachelors in Computer Science</i>	2019 – 2022 Nanaimo, BC
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Chitkara University <i>B.Tech in Computer Science</i>	2017 – 2019 Rajpura, India
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WORK EXPERIENCE

Front-End Developer <i>Freelancing</i>	Dec 2023 – Present Mississauga, ON
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- Designed and developed multiple client-facing web applications using **Next.js, React, TypeScript, and Tailwind CSS**, focusing on **performance, scalability, and clean UI/UX principles**.
- Built a **property listing platform** enabling landlords to post and manage listings, while tenants could filter properties by location, price, and availability. Implemented **server-side rendering** with dynamic routing and debounced search queries to improve response time and user engagement.
- Created a **fitness coaching dashboard** for personal trainers to manage clients, sessions, and workout plans. Integrated **calendar APIs** and custom hook-based state management to sync session bookings in real-time.
- Developed an **e-commerce storefront** featuring product filtering, real-time inventory updates, and **Stripe integration** for secure payments. Used lazy loading and route-level code splitting to keep performance optimal across mobile devices.
- Implemented **role-based access control (RBAC)** using JWT and middleware in Next.js API routes to secure admin dashboards, client areas, and payment gateways.
- Delivered a custom blog CMS using a **headless CMS backend (Sanity)**, allowing non-technical users to manage content with live preview capabilities. Built reusable components and implemented **ISR (Incremental Static Regeneration)** for SEO and performance.
- Worked with clients to translate **Figma designs** into responsive interfaces, ensuring cross-browser compatibility and **WCAG accessibility standards** using semantic HTML and ARIA attributes.
- Performed performance audits and optimizations using Chrome DevTools and Lighthouse. Identified and resolved **render-blocking scripts, oversized images, and unoptimized bundle sizes**—improving load time by up to 70% on average.
- Collaborated with backend developers to integrate **REST and GraphQL APIs**, handling edge cases like retries, caching, and optimistic UI updates using libraries like React Query and Axios.
- Set up **CI/CD pipelines** for staging and production environments using Vercel and GitHub Actions, automating deployment, linting, and test workflows.

Associate Engineer <i>Infosys Technologies</i>	June 2022 – Aug 2023 Calgary, AB
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- Joined a sprint team for building an **internal assessment creation platform** using React, TypeScript, and JavaScript, where major hurdles involved managing complex form states and validation flows for dynamically generated quizzes and assessments.
- Created custom React hooks for managing **modular form logic**, enabling reusability across different assessment types and reducing repetitive code by 45%.
- Faced performance bottlenecks with large data rendering; resolved by implementing **virtualized lists using react-window**, improving load speed by 60% for assessments with over 500 questions.
- Collaborated closely with UI/UX teams to bridge design-implementation gaps. Developed **pixel-perfect interfaces** from Figma designs, ensuring mobile responsiveness and fluid user interaction.
- Introduced lazy loading and dynamic imports in React routes, which cut down the initial bundle size by 35%, significantly improving **first contentful paint metrics**.
- Participated in code reviews, pair programming, and SCRUM meetings, helping increase delivery consistency and improving team-wide code quality.