

SUMMARY

Web Developer with ~1 year of production experience building high-traffic, scalable Next.js applications with a strong focus on **Technical SEO**, **Core Web Vitals (LCP, CLS, INP)**, and **JavaScript rendering**. Delivered measurable outcomes — **40% page load reduction** and **35% Core Web Vitals improvement** — by owning SSR/SSG/CSR rendering strategies, **canonicalization**, **structured data (JSON-LD)**, **CDN/edge caching**, **lazy loading**, and **code splitting** in fast-paced **Agile** environments. Experienced with **SEO-safe site migrations**, semantic HTML, WCAG accessibility, and cross-browser compatibility. Comfortable partnering with SEO, DevOps, and Product teams across the full delivery lifecycle.

EXPERIENCE

Bookswagon

Frontend Engineer (SDE 1)

Aug 2025 – Present
Noida, India

- Next.js Web Platform Migration** [dev.bookswagon.net (in development) | bookswagon.com (legacy)]
 - Engineered ground-up migration of legacy .NET frontend to **Next.js (SSR/SSG/CSR)** with **TypeScript** and feature-based component architecture — reduced average page load time by **~40%** and replaced **30+** legacy components; designed **SEO-friendly URL structures** and implemented **canonicalization**, **hreflang**, **redirects**, and **robots directives** for clean crawl-budget management
 - Improved **Core Web Vitals (LCP, CLS, INP)** by **35%** and Lighthouse scores via **lazy loading**, **code splitting**, image/font optimization, and **critical rendering path** improvements; minimized JavaScript execution time and optimized **hydration** in Next.js; integrated **Cloudflare CDN** with edge caching & WAF — cut server load by **25%** and improved **TTFB** globally
 - Implemented **structured data (JSON-LD)** at scale across book listing, product, breadcrumb, and organization schemas; maintained clean, **semantic HTML5** output for accessibility and SEO; ensured **WCAG 2.1 AA** compliance and **cross-browser compatibility** (Chrome, Firefox, Safari, Edge) using **CSS3**, **SCSS**, and **Tailwind CSS**
 - Led **SEO-safe site migration** from .NET to Next.js — defined redirect mapping, validated indexation continuity, and performed pre/post-launch **log file analysis** to monitor search engine crawl efficiency and prevent ranking drops
 - Built **GraphQL Federation BFF layer** consolidating microservice REST APIs — eliminated over-fetching and reduced JavaScript payload by **~35%**; set up **GitHub Actions CI/CD** with ESLint, TypeScript type-checks, **Jest/RTL** unit & integration tests, and **Playwright E2E** — reduced release cycle to **under 10 minutes** with **zero production regressions**
 - Built reusable, **SEO-optimized Next.js component library** with **Radix Primitives** and **Tailwind CSS**; collaborated in **Figma** to translate wireframes into production-ready components; managed **Zustand** global state across multi-step flows; deployed on **AWS (EC2/S3)** with Docker
- Mobile App** [Google Play Store] (*Flutter, Firebase, Amplitude*)
 - Rebuilt legacy WebView wrapper as a native modular app with **HTTP caching** — drove **17×** daily order growth (3.4 to 58 orders/day) within 8 weeks; scaled MAU from 4,771 to **9,443 (97% growth)** in one month; identified **~65%** View-to-Cart drop-off via **Firebase & Amplitude** analytics, raising **session-to-purchase conversion to 11.6%**

Pazy (B2B Fintech Startup)

Software Development Engineer (promoted from Intern)

Dec 2024 – Jul 2025
Bengaluru, India

- Led **Vue.js / Nuxt.js** frontend architecture and **design system** integration; refactored **20+ components** enforcing **cross-browser compatibility** and clean, maintainable code standards; participated in **code reviews** to ensure software quality
- Built automated invoice export (CSV / ZIP) with self-service filtering — reduced manual vendor requests by **60%**; architected bulk-upload reimbursement with **OCR parsing**, multi-currency support, and **TypeScript + REST APIs** — accelerated submission speed **5–10×**
- Implemented UTR reconciliation tool via Postman-tested APIs — cut manual effort **4–5×**; hardened vendor onboarding with real-time **error handling**, **Jest**-tested form validation — reduced submission errors by **50%** and unauthorised actions by **80%**

EDUCATION

Maharaja Surajmal Institute of Technology

B.Tech, Computer Science & Engineering | Minor: Artificial Intelligence

GPA: 8.56/10.0 | Authored ML research paper on customer segmentation (View Paper)

Aug 2021 – May 2025
Delhi, India

PROJECTS

ShareBoard — Interactive Real-Time Collaboration Platform

github.com/YashTygi | Next.js, Node.js, PostgreSQL, Socket.IO, Canvas API, TypeScript

Dec 2023
Open-source

- Built secure real-time platform in **TypeScript/Next.js** supporting **1,000+ DAU** with **semantic HTML5/CSS3**, client-side encryption, **Canvas API** drawing tools, and **RTL** test coverage; optimized **PostgreSQL** queries — **45% reduction** in server response time; scaled to **10,000+ concurrent users** at **99.9% uptime** via lazy loading, memoization, code splitting, and cross-browser testing

TECHNICAL SKILLS

- Languages & Styling:** JavaScript (ES6+), TypeScript, HTML5 (semantic), CSS3, SCSS/SASS, Tailwind CSS, Emotion / CSS-in-JS, Python
- Frameworks & Libraries:** Next.js (SSR/SSG/CSR), React.js (Hooks, Context API), Redux/RTK, Zustand, GraphQL, REST APIs, Vue.js, Nuxt.js, Node.js, Express.js, Radix UI, MUI Base, Socket.IO, Vite, Webpack, Babel
- Technical SEO & Performance:** Core Web Vitals (LCP, CLS, INP), Structured Data (JSON-LD), Canonicalization, hreflang, Robots Directives, Redirects, Crawl Budget, Log File Analysis, SEO-safe Migrations, Lighthouse, TTFB Optimization, Image/Font Optimization, Critical Rendering Path, JavaScript Hydration
- Testing & Debugging:** Jest, React Testing Library, Playwright, Chrome DevTools, Postman, ESLint, Prettier, Git
- Tooling & Infrastructure:** GitHub Actions (CI/CD), Docker, AWS (EC2/S3), Cloudflare (CDN/WAF/Edge), Firebase, Amplitude, Figma, PostgreSQL, MySQL, Redis
- Core Concepts:** Responsive Web Design, WCAG Accessibility, Cross-Browser Compatibility, Component Library Architecture, State Management, Performance Optimization, Microservices, Agile/Scrum, Code Reviews