# Pushpendra Yadav

**Staff Frontend Engineer & Engineering Lead | React · TypeScript · Frontend Architecture · Design Systems · Accessibility · AI-Native Development**

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## PROFESSIONAL SUMMARY

Staff-level frontend engineer and engineering lead with 12+ years building high-scale React and TypeScript products, including 5+ years of people management, most recently two teams of 5–6+ engineers each. Specialised in frontend platform work (component and design systems, monorepos, micro-frontends, performance and accessibility) and in AI-native engineering: LLM-assisted workflows, codemod-driven migrations and an MCP-based Figma-to-code pipeline built on a governed component library. Led the frontend for an enterprise conversational AI assistant, replaced a fork-a-copy component culture with one shared library, cut tech debt by 75% and retained ~80% of the team over 3.5 years. Since 2026, shipped three products end to end and contributed accessibility and correctness fixes upstream: **8 merged PRs in October 2026** across Zag.js, Ark UI, react-resizable-panels and Matita, with open PRs in Jotai, TanStack Router, Floating UI and Excalidraw. Seeking a Staff Frontend Engineer / Frontend Architect role.

## OPEN SOURCE

### Contributor — accessibility & correctness in UI libraries

Mar 2026 – Present

*Fixes in the libraries other teams build on, each with a root cause, a failing test and a reproduction · github.com/tad-bit-better*

- **8 merged PRs in October 2026** across Zag.js, Ark UI, react-resizable-panels and Matita; open PRs in Jotai, TanStack Router, Floating UI, Excalidraw, Material UI and Oat.
- **react-resizable-panels** (bvaughn): #777 — *vh / vw / em* panel sizes now resolve against the panel's own window, so popouts and iframes size correctly. Released in 4.15.2.
- **Zag.js & Ark UI** (Chakra UI's headless state-machine layer): fixed ARIA semantics in Steps (#3529, *aria-current* axe violation), Splitter (#3553, *aria-orientation*) and Password Input (#3555, misleading *aria-expanded*; maintainer extended it with keyboard access), and ToC scroll behaviour (#3542). Ark #4234: FileUpload now honours *Field.Root readOnly* across React, Solid, Vue and Svelte. Reviewed community PRs, surfacing a tooltip Escape-dismiss regression with a repro.
- **Jotai**: #3383 — *freezeAtom* no longer crashes on circular references or typed arrays; the maintainer opened the PR from my branch (in review).
- **In review**: TanStack Router #8828 (*createMemoryHistory* ignored *initialIndex: 0*), Floating UI #3536 (typeahead skipped the first item), Excalidraw #12482 (external links opening in the editor tab), Material UI #49540 (focus lost when Button enters *loading*, WCAG 2.4.3).
- **Also**: Matita icons #28 / #29 (labelled icons no longer *aria-hidden*; pencil-grain CSS dial, 0.5.0); File Viewer #419 (toolbar focus loss, fixed in 3.3.0 along my proposed approach); Storybook #37030 (sidebar search on the outdated ARIA 1.1 combobox pattern, with a tested fix).

## PROFESSIONAL EXPERIENCE

### Independent Software Engineer

Feb 2026 – Present

*Remote | Building and shipping privacy-first, AI-powered web products end to end, and fixing the libraries they depend on upstream*

**BecauseILiked** — becauseiliked.com

- Built and launched an AI recommendation app: users describe something they loved and why, and get films, shows, books and games back with a specific explanation of fit. Next.js, TypeScript and Supabase on Vercel, with OAuth and row-level security on every table.
- Designed a unified catalog schema across four media (~13.8k titles, loaded through an idempotent pipeline) and a pgvector retrieval layer (versioned embeddings, HNSW cosine index, filtered similarity search) for RAG with streaming LLM explanations and hard spend caps.

**VitalDelta** — vitaldelta.app · github.com/tad-bit-better/vitaldelta · MIT

- Local-first web app that turns lab-report PDFs into per-marker trend charts for patients and doctors. No backend and no accounts: all parsing and storage happen on the device, and a strict Content Security Policy makes that guarantee verifiable.
- Lab-agnostic extraction pipeline mapping marker synonyms to LOINC codes, shipped as a pure TypeScript package decoupled from the React/Vite app for reuse in the planned mobile client; 171 tests across 22 suites. Idea to production in about a week with AI-agent-driven development.

**Thumbline** — thumbline.app · github.com/tad-bit-better/thumbline · AGPL-3.0

- Next.js app that listens to a song clip and generates playable right-hand guitar arrangements (arpeggio, fingerstyle, flamenco) at three difficulty levels, with chord review and speed-adjustable playback synced to the recording.
- Nx monorepo with separate packages for in-browser audio analysis (essentia.js on WebAssembly, so audio never leaves the device), the arrangement engine, notation renderer, playback and UI library (design tokens, Storybook interaction tests); a typed pattern DSL encodes per-note technique.

**Coodlesome.com** — family-run home business

- Took the business online with a custom Next.js storefront (catalog, cart, checkout); owned hosting, DNS, SEO (structured data, sitemaps) and Core Web Vitals.

### Tech Lead / Frontend Lead · Engineering Lead, 2 teams of 5–6+ engineers

May 2022 – Jan 2026

*Leena AI | Gurgaon, India — enterprise HR SaaS platform*

- Led the frontend for Leena AI's enterprise conversational assistant: streaming bot responses, rich message types and action cards, in-chat webviews across web, Microsoft Teams and Slack, bot-to-human handoff, and enterprise SSO (SAML / OIDC).
- Managed two teams of 5–6+ engineers each across frontend tracks (conversational webviews, workflow automation, document management, reusable libraries): capacity planning, performance review cycles, promotion recommendations, 1:1s, performance management and hiring. Retained ~80% of the original team over 3.5 years.
- Replaced a fork-a-new-copy habit (v1/v2/v3 component duplicates under deadline pressure) with one governed component library and design system, built with Product and Design (tokens, component contracts, Storybook visual tests, WCAG); deprecated and removed the duplicates. Consistent UX across 5+ product lines and 30–40% faster frontend delivery.
- Built an MCP-based Figma-to-code pipeline that generates production UI from Figma designs using only the shared library and design tokens; introduced AI-native practices team-wide (shared LLM project rules, AI-generated unit tests, AI-assisted PR review) with humans accountable for architecture and review.
- Migrated large React applications from Webpack 4 to Webpack 5 + Module Federation with codemod-driven refactoring, reducing frontend tech debt by 75% and setting micro-frontend guidelines adopted across product teams.
- Brought engineering into Product's prototyping stage, so competitor-driven change requests were shaped against our own architecture instead of copying competitors' library and tech choices.
- Built the visual workflow-automation builders (node builder and drag-and-drop form builder, TanStack Query for server state and caching) and a document-management module with a universal file viewer for request uploads and approvals.
- Cut initial load time by ~30% (bundle optimisation, code splitting, lazy loading, virtualisation); hardened security (CSP, XSS mitigation, dependency audits); set up CI/CD on GitHub Actions, a test-first culture (Jest, RTL, Cypress) and the RFC / design-doc process.

### Technical Lead · Engineering Lead, 5 engineers

Jun 2021 – Apr 2022

*Ferns and Petals (FNP.com) | Delhi, India — high-traffic ecommerce*

- Led frontend architecture for multiple B2B portals, including store and delivery-agent systems; owned sprint planning, capacity allocation, reviews and delivery.
- Improved Core Web Vitals on customer-facing flows (rendering, image delivery, caching, API handling) for SEO and load-time gains; introduced Sentry-based observability that shortened defect detection and resolution.

### Technical Lead · Engineering Lead, 5 engineers

Apr 2020 – Jun 2021

*Datafoundry AI | Bangalore, India*

- Architected the frontend for mSafety, an enterprise pharmacovigilance and cosmetovigilance platform used by major pharma and cosmetics companies, built on a micro-frontend architecture with independent deployments; created its shared UI component library and managed the team end to end.

### Founder

Apr 2019 – Mar 2020

*Planzest | Indore, India — self-funded D2C desk-plant startup*

- Built the ecommerce web app on the MERN stack (catalog, cart, checkout, order management) and ran sourcing, pricing and fulfilment; wound down due to COVID lockdowns.

### Business Technology Analyst / System Engineer

Apr 2016 – Mar 2019

*Deloitte | Mumbai, India*

- Built frontend and backend features (React, JSP, Servlets) for US state healthcare eligibility systems (Montana DPHHS, Rhode Island DHS); React components inside Salesforce CRM and legacy-IE polyfills on the Browser Compatibility Team.

### Staff Software Engineer

Jul 2014 – Apr 2016

*Nenosystems Consulting | Indore, India — modules for a large-scale vehicle tracking system (driver activity and log tracking)*

## CORE SKILLS

**Frontend Architecture:** Design Systems, Component Libraries & APIs, Micro-frontends (Module Federation), Monorepos (Nx, Turborepo, pnpm workspaces), Client-side Data Architecture, Local-first & Privacy-by-Design, Large-Scale Migrations, Tech-Debt Reduction, RFCs / Architecture Reviews

**Accessibility:** WCAG 2.1, WAI-ARIA patterns (combobox, tabs, splitter, menus), focus management, keyboard interaction, axe

**Core Stack:** React, TypeScript, JavaScript (ES2022+), Next.js (SSR / SSG / ISR), HTML5, CSS3; Redux, Zustand, TanStack Query; REST, GraphQL

**AI-Native Development:** Cursor (project rules), Claude Code, Copilot, agent-ready repos (AGENTS.md / CLAUDE.md), MCP integrations, AI-assisted tests and PR review, codemods (jscodeshift); embeddings, RAG, pgvector

**Tooling & Quality:** Webpack, Vite, bundle optimisation, code splitting, Storybook, Jest, Vitest, React Testing Library, Playwright, Cypress, GitHub Actions, Docker, Vercel, Sentry; Core Web Vitals, Web Workers, WebAssembly, CSP / XSS mitigation; Supabase (Postgres, Auth, RLS), IndexedDB (Dexie)

**People Leadership:** Managing two teams of 5–6+ engineers each, capacity planning, performance reviews, promotions, 1:1s, hiring, mentoring senior engineers, frontend roadmaps

## EDUCATION

### B.E. Computer Science Engineering — Lakshmi Narain College of Technology, Indore

2014