

Om Prakash Kesarwani

Engineering Lead | Frontend Architect | 11+ Years Experience

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PROFESSIONAL SUMMARY

Frontend engineering leader with 11+ years of experience building scalable UI platforms, SDKs, and hybrid mobile apps. Proven expertise in React, Next.js, and performance optimization. Skilled in leading high-performing teams, delivering cross-functional projects, and driving architectural improvements. Currently building agentic AI workflow platforms and developer-productivity tooling, and expanding into backend systems for full-stack ownership.

CORE SKILLS

Frontend: React, Next.js, TypeScript, JavaScript (ES6+), Redux, Angular, AngularJS, React Native, HTML5, CSS3, Hybrid Apps
Tooling: Webpack, Rollup, Storybook, Jest, React Testing Library, Visual Testing, CI/CD, Bitbucket Pipelines, REST APIs
AI & Platforms: Agentic Workflows, React Flow, Rule Engines, RAG, LLM Tooling, DAG Orchestration
Architecture & Leadership: SDK Design, System Design, Performance Optimization, Cross-functional Delivery, Team Leadership, Mentorship

WORK EXPERIENCE

Engineering Lead — Paytm (promoted from Senior Technical Lead) May 2022 – Present

- Leading development of an **Agentic Workflow Platform** enabling teams to define decision flows with both agentic (AI-driven) and deterministic (rule-based) execution models — now powering **hundreds of live flows across 3 business verticals**, spanning conversational bots and non-chat, process-based backend automations.
- Built the platform's visual **no-code / low-code workflow builder** using React Flow (branching logic, conditions, execution paths), plus schema-driven configuration forms (React Hook Form) for dynamic setup of agents, rules, prompts, and execution parameters.
- Automated production rollout with **canary analysis** — releases progress automatically after PR merge, promoting to full traffic only once canary health checks pass, enabling safe, incremental deployment.
- Building an in-house **Agentic SDLC platform** — a repo knowledge base + RAG ("Brain"), a DAG-based SDLC executor (analysis → plan → branch → implementation → self-review → ephemeral DevBox → E2E → PR → QA deploy), and ephemeral DevBoxes for automated E2E; **300+ runs across 30+ repos in 4+ product groups, ~45% completing end-to-end with no human intervention.**
- Cut **Bitbucket CI runtime from 15 min to 8 min** by decoupling the build stage from the PR pipeline (build no longer re-runs ESLint, unit tests, and other checks) and adding a branch gate that blocks any merge to main/integration without a PR.
- Created **"Z-One"**, a VS Code / Cursor extension powered by MCP tools that streamlines developer workflows and automates contribution processes — **adopted by 600+ engineers**, cutting repetitive coding tasks ~60% and lifting team productivity ~30%.
- Led development of a central **Frontend SDK** powering ~90% of Paytm app pages (dynamic widgets from API-driven configurations), architected with **Rollup + Shadow DOM** — lazy loading, optimized data flow, and error boundaries — improving **Lighthouse scores from 65 to 90+** and page-load times ~40%.
- Built robust **testing infrastructure** — unit testing (Jest + RTL), visual regression (Storybook + BackstopJS), and daily CI/CD cron reports — reducing regression cycles from 1 week to 3 hours.
- Expanding scope into **backend systems** alongside frontend architecture.
- Owned **end-to-end technical delivery** for a team grown from **2 to 5 engineers** (senior and lead) — driving execution, technical direction, and code quality while remaining hands-on.
- Hired 4 engineers** (full-cycle interviewing), ran **performance reviews**, and mentored a report to **promotion**; partnered closely with PMs, QA, Ops, and cross-vertical stakeholders.

Senior Software Engineer — Optum

Jan 2021 – May 2022

- Built a responsive **PWA using Next.js** with service workers and web workers (SSG + CSR) — achieving a **92 Lighthouse score** and <2s load time while lifting user retention ~45% and cutting bounce rate ~35%.
- Developed a web-based **Citizen Benefit Management System** where users manage family benefits, using React, React JSON Schema, and Redux.

Consultant — Deloitte

Feb 2019 – Jan 2021

- Developed a graphing component in Angular v4 using native APIs, eliminating dependency on external libraries and improving performance.
- Delivered a Citizen Benefit Management System in **Salesforce LWC**; quickly mastered the framework and conducted training sessions for developers.
- Built a scalable **React Native Child Welfare** product with offline support, Salesforce backend integration, and incremental sync.
- Designed atomic component architecture + flag-based Redux flow for dynamic CRUD modules.
- Created a **code generation system** that auto-produced 200+ React Native pages, reducing manual effort and ensuring seamless integration.
- Built a tool to convert Salesforce Aura components into LWC, accelerating legacy migration.

Senior Associate Technology — Nagarro

Jun 2018 – Feb 2019

- Developed a **React Native** child welfare application for Android and iOS with offline record maintenance, video/audio capture, and incremental syncing.
- Took ownership after the lead's transition, delivering features independently and managing client communications.
- Implemented Redux state management and Realm DB for stable offline performance.

System Engineer — TCS

Feb 2015 – Jun 2018

- Built hybrid mobile and responsive web apps using AngularJS, Angular 2+, Ionic, Cordova, and SQLite with offline sync, OAuth SSO, and Firebase push notifications.
- Led teams of 2–4 engineers across multiple projects while remaining hands-on with coding and delivery.
- Collaborated with backend leads for API integration and client requirements, ensuring timely and seamless delivery.

EDUCATION

MCA — SASTRA University, Thanjavur (2018)

BCA — CSJM University, Kanpur (2014)