

Keshav Katwe

Principal Frontend Engineer / Frontend Architect

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PROFESSIONAL SUMMARY

Frontend Architect with 11+ years designing and scaling frontend systems for fintech and consumer products across India and the Middle East. Specializes in design system architecture, cross-platform web and React Native engineering, and performance-critical UI. Leads architecture from technical direction and engineering standards through hands-on delivery, with standards adopted across 40+ engineers. Builds independent products and TypeScript developer tooling, including Pushwing and an MCP framework.

CORE SKILLS

Architecture & leadership: Frontend Architecture, Design System Architecture, Cross-Platform Architecture, Technical Roadmapping, Architecture Reviews, Performance Engineering, Engineering Standards, Mentorship.

Frontend: JavaScript, TypeScript, React, React Native, Next.js, Redux, XState, TanStack Query, React Hook Form, Zod, Tailwind CSS, Styled Components, LegendState, Vite, Biome, NX, Storybook.

Backend & platform: Bun, Node.js, NestJS, Elysia, Express.js, Drizzle ORM, REST, gRPC, MySQL, PostgreSQL, Redis, BullMQ, pg-boss, AWS, Docker, Kubernetes, Turborepo, GitHub Actions.

AI, mobile & infrastructure: Model Context Protocol (MCP), LangGraph, LLM workflows, WhatsApp Business API, Slack, Expo, Expo Router, Clerk, OAuth, Cloudflare R2, Sentry, Dokploy, Razorpay, WCAG, i18n.

SELECTED INDEPENDENT PROJECTS

Pushwing | Creator & Architect

MCP-enabled publishing platform | pushwing.com

- Built Pushwing from scratch, owning the React/TypeScript dashboard, API, hosted MCP server, provider integrations and background workers.
- Implemented account-connection, publishing-job, usage and activity interfaces with TanStack Query, reusable UI components and an OpenAPI-generated API client.
- Designed shared services for dashboard and MCP workflows, with YouTube/Instagram integrations, OAuth and PostgreSQL-backed publishing jobs. Stack: React, TypeScript, Bun, Elysia, Drizzle, PostgreSQL, pg-boss.

MCP TypeScript Framework | Independent Developer

In development | TypeScript, Node.js, Zod, Turborepo

- Developing a modular framework for reusable tools with typed inputs, outputs and context, composable middleware, runtime validation and normalized error handling.
- Built adapters for the official MCP SDK and AI SDK, plus a typed in-memory test client and integration/compile-time tests across package boundaries.

PROFESSIONAL EXPERIENCE

Engineering Manager - Sense

Bangalore, India | Apr 2025 - Jul 2026

- Managed three frontend teams (3 engineers each) while personally contributing as an IC on one of them.
- Introduced React Hook Form + Zod org-wide, running adoption sessions with nearly every engineer; cut form-related bugs by 80%.
- Introduced XState for flow-based logic, achieving 90%+ bug-free flow code.
- Redesigned S3-based deployment architecture; cut AWS cost 70%, improved performance 30-80%, and cut deploy time to under 60 seconds.
- Modernized the dev toolchain to Vite + Biome; owned code review standards and company-wide code-quality decisions.

PROFESSIONAL EXPERIENCE (CONTINUED)

Lead Software Development Engineer - Investsky

Dubai, UAE | May 2023 - Dec 2024

- Sole architect for the mobile app; owned architecture, delivery, and release end-to-end.
- Led a ground-up rebuild of the Android and iOS app onto a Styled Components-driven design system, improving performance by 80%.
- Adopted TanStack Query and FlashList + Reanimated for high-performance lists and animation.
- Built a JSON-schema-driven form engine and custom charting components for financial data; drove launches that lifted engagement 20%.

Lead Frontend Engineer - invygo

Dubai, UAE | Oct 2022 - Apr 2023

- Built the invygo website from scratch, owning architecture and implementation end-to-end.
- Introduced the company's first design system and shipped key mobile app features alongside the core team.

Senior Technical Lead (Software Architect) - Paytm

Bangalore, India | Dec 2019 - Oct 2022

- Designed a scalable design system architecture from the ground up, cutting frontend development time 60% across product teams.
- Led architectural refactoring of core rendering and state layers, improving app performance 40%; redesigned CI/CD, cutting deploy time 70%.
- Directly led an 8-member team while architecting standards adopted org-wide across a 40-engineer organization. Stack: React, TypeScript, Styled Components, Lerna.

Senior Software Engineer - Zeta (Directi)

Bangalore, India | Aug 2016 - Dec 2019

- Delivered scalable fintech frontend modules focused on performance under high transaction volume.
- Conducted code reviews enforcing architectural standards; specialized in Vue.js. Stack: Vue.js, HTML, CSS3, ES6/ES7, Node.js.

Software Developer - AliveNow

Bangalore, India | Aug 2015 - Aug 2016

- Developed full-stack PHP applications and built hybrid mobile apps using Ionic and AngularJS. Stack: PHP, Laravel, CodeIgniter, Ionic, MySQL, AngularJS.

Software Engineer - Chromosis

Bangalore, India | Jun 2014 - Aug 2015

- Built server-rendered web applications and introduced modern practices using CodeIgniter and Laravel.

ADDITIONAL INDEPENDENT PROJECTS

Agenvik - Multi-Channel LLM Agent Platform | 2026 - Present | agenvik.com

LangGraph-based conversational agents for lead capture and support across WhatsApp Business API and Slack, with per-organization tenant isolation. Built on Bun, Elysia, Drizzle and PostgreSQL with state checkpointing.

Cashlog (Android App) | Jan 2023 - Present

Expense-tracking app built with React Native and Styled Components; available on the Play Store.

EDUCATION & LANGUAGES

B.E., Information Science - K.L.E's Institute of Technology | 2011 - 2014

Languages: English, Hindi, Kannada