

Jitendra Kumawat

Software Development Engineer – Frontend & AI Automation

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PROFILE

Frontend engineer with four years building React, Next.js and TypeScript products across two production portals. Reduced shared first-load JavaScript from **1.03 MB** to **262 kB**, rebuilt the partner application filing workflow to an **88%** flow-completion rate, and built **Forge**, an internal multi-agent platform used by approximately **30 people** across engineering, product and business.

PROFESSIONAL EXPERIENCE

Leap – Bengaluru, international education platform

Nov 2025 – Present

Software Development Engineer II

React · Next.js · TypeScript · Kotlin · PostgreSQL · MCP

- Rebuilt the application filing workflow used by partner agents, owning solutioning, backend contracts, frontend implementation, analytics instrumentation and phased rollout through **feature flags and permission-based cohorts**; improved **progression from drafts into later application stages**, reduced abandonment from **8.3%** to **2.6%**, cut median filing time from over five minutes to under one, and achieved an **88%** flow-completion rate.
- Led the revamp of the partner portal landing page and dashboard, reaching **88%** of logged-in users, with **36%** taking action through priority tasks, business overviews and industry-comparison insights.
- Led frontend performance optimisation across two production portals, reducing shared first-load JavaScript from **1.03 MB** to **262 kB**, **First Contentful Paint (FCP)** from approximately **600 ms** to **200 ms**, production build time from **228s** to **104s** and parsed bundle size from approximately **20 MB** to **14 MB**.
- Built **Forge**, an internal multi-agent platform operating through **role-specific Slack channels**, with **12 specialised agents** for codebase Q&A, analytics, database queries, small-ticket execution, pull-request review and scheduled reporting; used by approximately **30 people** across engineering, QA, product, programme, design and business.
- Automated the complete small-ticket workflow from requirement intake and clarification through implementation, pull-request creation and deployment, delivering **110+** changes in **10–20 minutes** end-to-end and resolving **600+** self-serve codebase and analytics queries.
- Built automated **pull-request review and Sentry RCA agents** covering repository-specific code-conformance and syntax rules, security checks, and production-build and bundle-size regression checks, escalating uncertain or high-risk findings for human review.
- Implemented an **incident and correction loop** in which agents record failed assumptions and human feedback, converting recurring domain and terminology mistakes into reusable, reviewed rules for the entire fleet.

Software Development Engineer I

Mar 2024 – Nov 2025

React · Next.js · TypeScript · MUI · Tailwind · React Query

- Re-engineered **Course Finder**, the shared course-discovery experience across two partner portals, supporting search, filtering and shortlisting across **100,000+** courses with React Query caching and reusable frontend infrastructure.
- Owned and evolved the shared **MUI and Tailwind design system** across two production portals, introducing **token-based theming** and reusable components while maintaining package upgrades, tree-shaking and bundle-size optimisation.
- Built and owned an AI-powered US visa mock-interview platform end to end, covering frontend, backend integration and AI prompting with **React, LiveKit, Python and OpenAI**; **90%** adoption, approximately **100** sessions per day, peak of **735** per week, rated **4.1/5**.
- Awarded **Excellent Performer** within four months of joining for rapid onboarding and high-impact delivery.

TychoGaming – Pune, remote

Sept 2023 – Feb 2024

Frontend Engineer

React · TypeScript · Redux

- Led the frontend for a browser game, turning detailed Figma specs into the production interface.
- Cut client memory pressure and improved frame rates on low-end devices by restructuring Redux state and splitting the bundle.
- Built one responsive system that held up from **360×640** phones to 8K displays, and replaced the JavaScript animation libraries with CSS.

Brillio – Bengaluru

Jun 2022 – Sept 2023

Software Development Engineer

React · Node.js · MongoDB · Firebase

- Built an online assessment platform with authentication, role-based dashboards and live analytics, running under high concurrent load.
- Built the course-management dashboard faculty used for scheduling and reporting, backed by Firebase.

Samsung R&D Institute India – remote

Sept 2021 – Jul 2022

Research Intern, concurrent with final year

Native Android · Python · on-device ML

- Built an Android voice-response system that changes its reply based on the caller's emotion, speech rate and volume.
- Ran the whole inference pipeline on the device with no server involved: emotion recognition, speech-rate estimation, amplitude analysis. Earned a **Certificate of Excellence**.

EDUCATION

SRMIST, Chennai — B.Tech, Computer Science and Engineering · May 2018 – Jun 2022 · **9.36 CGPA**

AREAS OF EXPERTISE

React · Next.js · TypeScript · Performance & Bundle Optimisation · Design Systems · Component Libraries · Agentic AI & MCP · Node.js