

Kamalesh Biswas

Senior Software Engineer

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Summary

Senior Software Engineer With 5+ years architecting scalable platforms serving 100M+ users—specializing in SaaS, real-time systems and performance engineering at scale. Proven track record of driving technical initiatives from 0 to n, and delivering enterprise-grade solutions across frontend and backend with 99.9% reliability.

Skills

Frontend: React.js, Next.js, TypeScript, JavaScript, HTML5/CSS3, PWA, React Query, Redux Toolkit.
UI & Design Systems: Tailwind CSS, Shadcn/UI, Radix UI, SCSS, LCSS, Styled Component.
Backend: Node.js, Express.js, Hono.js, JWT, Redis, Drizzle, Cloudflare Workers, AWS Lambda, RESTful API.
Architecture: Feature-Sliced Design (FSD), Backend For Frontend (BFF), Monorepo (Turborepo), Micro Frontends (with Module Federation), Domain-Driven Design (DDD), Event-Driven Architecture (EDA).
Tools: Cursor, Claude AI, Git, Postman, AWS, Cloudflare, Figma.

Experience

Senior Software Engineer I

Jan 2023 – Present

Red.Health (Remote)

Bengaluru, India

- **Architected** and delivered a multi-tenant **SaaS** platform using Next.js 15 (**SSR** and **SSG**), GraphQL and Turborepo with runtime tenant scoping and zero-downtime configuration updates, reliably processing **4000+** emergency cases daily at **99.9%** uptime. Implemented deployment and rollback workflows along with **RBAC** and **ABAC** access control across the dashboard, and also implemented **a11y** and **i18n**.
- Designed a No-Code **Workflow** platform using dnd-kit, JSON Schema and a rules-evaluation runtime, enabling non-technical administrators to configure **complex conditional logic**, pricing engines, dispatch rules and hospital **SOPs**. eliminated ongoing **engineering dependency**, reducing change-request tickets by **90%** and cutting new business **onboarding** time by 50%.
- Built an in-house design system library following atomic design principles with 100+ production components, supporting runtime theming (color palettes, typography, dark and light modes). Established a design-token pipeline from Figma tokens → CSS variables → production. Significantly improving UI consistency, development velocity and design quality.
- **Architected** and delivered a **real-time** telemedicine platform integrating 5G ambulance networks, **pub/sub** infrastructure (PubNub), **WebRTC** video (**Jitsi**) and **WebSocket/SSE** protocols. Streamed **IoT medical device data** (ECG, SpO2, BP, glucose) and **GPS** with **500ms latency**, enabling parallel in-transit diagnosis and reducing the **critical care response window by 18 minutes**.
- Built an offline-first PWA using Service workers and IndexedDB with push notifications, in-app payment collection and **real-time ambulance tracking**. Transformed operational efficiency from **30% to 80%**, delivering a full-stack solution used by field and operations teams at scale.
- Established frontend engineering standards by enforcing **ESLint** rules, Husky and lint-staged pre-commit checks and a structured **branching strategy**. Implemented **AI-assisted code review** (CodeRabbit) followed by manual reviews, automated **CI/CD pipelines**, and integrated **Sentry** and **Hotjar** for production monitoring and issue detection.

Software Engineer II

Jun 2022 – Jan 2023

MindTickle (Hybrid)

Pune, India

- Applied Test-Driven Development (TDD) practices to deliver high-quality, maintainable, and reliable code.
- Built high-performance heatmap visualizations improving rendering speed by 400% and becoming a core analytics component.
- Implemented lazy loading and data virtualization to efficiently handle enterprise-scale datasets.

Software Engineer

Sep 2020 – Jun 2022

Meesho (Remote)

Bengaluru, India

- Developed supplier management and catalog processing platforms serving 10,000+ suppliers.
- Built automated bulk-processing workflows validating 5,000+ items daily, reducing manual effort by 70% while maintaining 99.95% uptime.

Education

Bachelor of Engineering (B.E.) – Computer Science And Engineering

University Institute of Technology (B.U), West Bengal, India