

# L Anil Kumar Singha

Bengaluru • anilsingha.code@gmail.com • 7002159327 • linkedin.com/in/anil-loutombam

## SUMMARY

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Senior Software Engineer with 7+ years building production-grade React/Next.js applications and full-stack platforms at scale, including nationwide e-governance systems and a workflow-management platform built from the ground up. Known for engineering rigor: architected a 356-test Playwright suite running in under 2 minutes across parallel workers, and led a Jest-to-Vitest migration for faster iteration. Early adopter of AI-assisted engineering, integrating Claude into code review and document workflows to raise team velocity and code quality.

## EXPERIENCE

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### Senior Software Engineer

July 2024 - Present

Nichi-In Software Solutions Pvt Ltd

**Tech stack:** Playwright, Next.js, PostgreSQL, Prisma, MDXEditor, Electron.js, MongoDB

#### Workflow Management Platform

- Building a workflow management application that helps teams manage business processes by breaking work down into individual units called "actions," assigning them to people, tracking progress, and visualizing dependencies.
- Implementing a Lucene-style query syntax supporting field-specific search, full-text search, wildcards, and boolean operators for powerful in-app search.
- Developing DAG (Directed Acyclic Graph) based dependency visualization and Gantt chart views to help teams plan and track interconnected work.
- Using Playwright for end-to-end test automation to ensure reliability and catch regressions across the application.
- Set up a GitLab CI/CD pipeline for E2E tests, running the ~356-test suite on Chrome across 8 parallel workers (verified to scale beyond 8), with multi-browser support planned; brought total run time down to ~1.9 minutes.
- Migrated the unit test suite from Jest to Vitest for faster test runs and improved developer experience.
- Introduced Prisma alongside PostgreSQL to optimize data access and indexing for large datasets, improving query performance on pages that had been slowing down under load.
- Integrated Claude as an AI code-review agent for merge requests, automating review feedback and analysis to speed up the review cycle and improve code quality.
- Used Docker to containerize the local development environment and CI/CD pipeline runners, ensuring consistent builds across the team.
- Optimized server-side rendering (SSR) performance for pages handling large datasets, improving load times and responsiveness.

### Senior Software Engineer

May 2019 - July 2024

Refixd Technologies PVT LTD

## PROJECTS

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### Jal Jeevan Mission — eGovernment Foundation

January 2024 - July 2024

- Delivered modules for the Jal Jeevan Mission in React and Flutter, consistently meeting project deadlines.
- Integrated the SBI-ePay payment gateway for Madhya Pradesh, ensuring smooth and secure transactions across the platform.
- Contributed to the development of an HRMS module to support employee management.
- Conducted code reviews and implemented client-requested modifications to improve software quality and reduce post-release bugs.

### mGramseva Punjab — eGovernment Foundation

January 2024 - July 2024

- Deployed the application on both Android and iOS via the Play Store and App Store.
- Enhanced functionality for both metered and non-metered water connections to support diverse user needs.
- Contributed to development of the HRMS module to streamline organizational HR processes.

### Frontline Worker's App (Health Campaign) — eGovernment Foundation

July 2023 - January 2024

- Implemented capture of medicine side-effects to improve adverse event reporting accuracy.
- Developed functionality to refer beneficiaries experiencing side-effects to a health facility or worker for timely medical attention.
- Designed and built a mobile app for field teams to search for eligible beneficiaries and deliver healthcare interventions.
- Created a mobile app for field staff to track inflow and outflow of health resources, improving inventory accuracy.
- Spearheaded development and deployment of a mobile application for frontline health workers, used across multiple regions during health campaigns.

### Digit Sanitation — eGovernment Foundation

February 2022 - June 2023

- Contributed to the UI design of applications for Water Sewerage, Faecal Sludge Management (FSM), and Bills, used by Urban Local Bodies across multiple states.
- Strengthened the internal React component library by building reusable, customizable components, documenting them in Storybook, and publishing them to npm for wider adoption.

- Collaborated closely with the design team using Figma to translate UI/UX designs into pixel-accurate React components.
- Built accessibility (WCAG-compliant) UI components into the shared component library, ensuring consistent, accessible experiences across eGovernment Foundation applications used by citizens nationwide.
- Mentored engineers from the NIC (National Informatics Centre) and PwC teams, aligning on technical implementation and best practices for the platform.
- Integrated AWS S3 for storing and serving file/image attachments, configuring bucket policies and IAM roles to enforce secure, controlled access across the application.
- Implemented a bulk-upload feature for translations, cutting translation turnaround time roughly in half.

### **Iptor Supply Chain Systems — Iptor**

*April 2021 - December 2021*

- Collaborated with product owners to finalize project plans based on functional requirements.
- Authored developer documentation and guides to speed up onboarding for new team members.
- Built key features including column visibility, global search, sorting, and filtering for data-heavy pages.
- Set up theming styles and multiple formatters, improving application aesthetics and rendering performance.

### **Pivotate — Pivotate**

*August 2020 - March 2021*

- Led design and implementation of the application's UI using a proprietary framework, delivering a modern, intuitive user experience.
- Streamlined application customization and deployment by removing redundant components and establishing a modular architecture.
- Built and maintained backend services and REST/GraphQL APIs using Node.js and Express.js.
- Designed GraphQL schemas and resolvers to enable flexible, efficient data fetching for frontend applications.

## **EDUCATION**

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### **Master of Computer Applications (MCA)**

*May 2019*

*Assam Don Bosco University*

## **SKILLS**

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**Languages:** TypeScript, JavaScript, HTML, CSS

**Frameworks & Libraries:** ReactJS, Next.js, React Redux, React Query, Flutter, Sass, Styled Components, Material-UI, MDXEditor, Storybook, Figma, Electron.js, Accessibility (WCAG)

**Backend & Data:** Node.js, Express.js, GraphQL, PostgreSQL, Prisma, MongoDB, REST API, AWS (S3, IAM)

**Testing & Tooling:** Playwright, Docker, Jenkins, GitBook

**AI-Assisted Development:** Claude (agentic coding workflows, automated merge request review)