

Bakhtyar Ansari

Software Engineer · React · TypeScript · Frontend · CI/CD

Master of Computer Applications

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SUMMARY

Frontend-focused Software Engineer with 1.5+ years building production **SaaS** products on **micro-frontend** and **microservice** architectures. Skilled in **React**, **TypeScript**, **CI/CD**, **Docker**, and **Vitest**-based unit and integration testing across distributed systems. Proven in owning the full delivery cycle — from design-system architecture to deployment automation — in fast-moving **Agile** teams working across product, backend, and design functions.

TECHNICAL SKILLS AND INTERESTS

- **Languages & Tools:** C, C++, Python, **JavaScript**, **TypeScript**, **HTML5**, **CSS3**, Tailwind, BaseWeb, **Agile**, **Microfrontend**, Git, **GitHub**
- **Frontend Frameworks:** **React**, **NextJS**, React Query, Zustand, Context API, **Storybook**, **Vite**
- **Testing:** **Vitest**, React Testing Library, Unit Testing, Integration Testing
- **DevOps & Cloud:** **Docker**, CI/CD Pipelines, S3, npm (private packages)
- **Backend & APIs:** Node.js, Django, **MongoDB**, **REST APIs**, PostgreSQL
- **Additional:** Sass, Babel, Webpack, ES6

WORK EXPERIENCE

• Jr. Software Developer

Xogene · SaaS Clinical Research Platform

Jan 2025 – Present

Pune, Maharashtra

–Prime — Clinical Registry Platform (v3.4 → v4.1)

Jan 2025 – Present

Core SaaS product · Micro-Frontend · CI/CD · Containerisation

- Won the company-wide **Torch Bearer Award (Q2 2025)** by delivering the **LockedFields** admin feature end-to-end — an **AG Grid** configuration page mapping field names to jPaths, locking server-populated registry fields while preserving user overrides in clinical forms.
- Built **data-intensive** clinical **grids** handling **250,000+** rows with **server-side filtering**, **pagination**, and custom **AG Grid** renderers offloading computation to the **REST API** tier to maintain sub-second UI responsiveness at scale.
- Reduced feature rollout time by **25%** by **leading 4 engineers** to decompose the monolith into independently deployable **Micro-Frontend** modules; cut build times by **50%** by migrating from CRA to **Vite** and converting the codebase to **TypeScript (TSX)**.
- **Eliminated post-deploy hotfixes** by engineering a **CI/CD** hook that **auto-detected jPath mutations** and **migrated affected records** across the database and **AWS S3** automatically; also used containerised the **5-microservice** architecture with **Docker** for reproducible builds.
- Architected a **Storybook**-powered **Design System** as a versioned **private npm package** shared across all micro-frontends; introduced **Vitest** and **React Testing Library** to gate every **CI** stage with unit and **integration tests**.
- Scaling v4.0.1 to **17+ new clinical registries** and designing the v4.1 frontend architecture to integrate **Transcend AI** — Xogene's proprietary AI engine — into clinical data workflows.

–Last Mile · Beta — Regulatory Submission Extension

2025 – Present

Internal Chrome Extension · MV3 · React · Vanilla JS

- Built an internal **Chrome Extension (MV3)** using **React 18** for the overlay UI and vanilla JS content scripts — monkey-patching **XHR** to intercept Prime's live API responses and injecting captured clinical data into **CTIS**, **EMA RWD**, and **JRCT** government portals via per-registry field-mapping dictionaries, eliminating manual re-entry for regulatory submissions.
- Solved **Angular**-controlled input injection via native property descriptors and synthetic **input** events; engineered three portal-specific fill strategies — single-pass SPA for CTIS, **chrome.storage**-persisted multi-step navigation for EMA and JRCT — under one orchestrator.

–Xogene.com — Corporate Website Rebuild

2025 – 2026

Next.js 14 App Router · Payload CMS · Full-stack

- Built and shipped **xogene.com** in **Next.js 14 App Router** across 5–6 content-driven pages, integrating a self-hosted **Payload CMS** server with per-page collection schemas for headings, blogs, images, and job listings — giving the content team full editorial control with zero developer involvement for routine updates.

ACHIEVEMENTS

• TCS CodeVita S12 Global Rank #3068

Competitive programming contest

April 2025

– The world's largest programming contest, officially recognized by the **Guinness Book of World Records**.

EDUCATION

• Master of Computer Applications

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2023-25

CGPA: 7.5