

Swapnil Yelkar

Technical Lead Engineer | UI Architect – Roche

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📍 Oakville, Ontario, Canada

SUMMARY

Senior Frontend Engineer with 14 years of experience building and scaling high-impact, consumer-facing web platforms. Strong focus on the back of the frontend including React architecture, API-driven systems, performance optimization, accessibility, and large shared codebases. Proven track record delivering mission-critical products in regulated, high-scale environments and collaborating with globally distributed teams. Experienced in modern frontend delivery pipelines, testing strategies, and frontend system reliability.

CORE SKILLS

- Frontend Systems Engineering (Back of Frontend)
- React Architecture, State Management, Shared Libraries
- Next.js (SSR concepts), Frontend Delivery & Integration
- API Integration with Backend Services (Node.js / C# / Java ecosystems)
- Performance Optimization (code splitting, lazy loading, caching)
- Accessibility Engineering (WCAG 2.2, ARIA, semantic HTML)
- Automated Testing (Jest, Testing Library, Cypress, Playwright)
- Monorepo & Shared Codebases (Nx)
- Git-based workflows & CI/CD collaboration
- Agile / SAFe delivery in distributed teams

EXPERIENCE

Roche (RIS) | Technical Lead Engineer | UI Architect

Navify Clinical Hub ↗

06/2022 - 10/2025

Navify Clinical Hub is a large-scale clinical platform used by oncology teams to access consolidated patient data and support critical decision-making workflows.

- Led frontend system architecture for a high-impact clinical platform used by global healthcare teams.
- Designed and maintained React and Angular-based frontend systems integrated with backend services and APIs.
- Delivered a production-ready AI Patient Chart proof-of-concept in under one month, securing stakeholder confidence and funding.
- Owned end-to-end frontend delivery for multiple initiatives, including system rewrites and feature rollouts.
- Drove frontend modernization efforts, standardizing architecture, improving maintainability, and reducing technical debt across products.
- Implemented performance optimization strategies including lazy loading and code splitting to improve load times and runtime efficiency.
- Championed accessibility best practices (WCAG 2.2, ARIA) across shared UI components.
- Established automated testing practices and quality gates using Jest, Testing Library, Cypress, and Playwright.
- Acted as Engineering Excellence Lead, improving code quality, review standards, and frontend governance.
- Collaborated closely with globally distributed teams across product, backend, and platform engineering.

Recognition:

- Rated "Exceeds Expectations" for three consecutive years.

BMC Software | Sr. Product Developer

Helix Business Workflows - Innovation Suite Application ↗

01/2018 - 06/2022

Helix Business Workflows is a scalable SaaS case-management platform serving enterprise customers.

- Built and scaled frontend systems for a high-traffic SaaS platform used across multiple business domains.

- Designed reusable Angular component libraries shared across teams.
- Integrated frontend applications with backend services and APIs.
- Collaborated with product and UX teams to refine user flows while maintaining system reliability.
- Supported CI/CD pipelines and Agile delivery for shared codebases.

Cognizant | Associate Project

Helix Business Workflows - Application

UI Developer, Cognizant (on-site at BMC Software)

- Developed reusable frontend components for enterprise-grade web applications.
- Supported production systems and collaborated closely with client engineering teams.

09/2016 - 01/2018

Ebix Software India (Zinnia) | System Analyst - II

SmartOffice - CRM ↗

A CRM product specialized in Insurance and Investment domain. SmartOffice is a huge enterprise application product which has almost everything in insurance and investment domains.

- Contributed to a large enterprise CRM platform in the insurance and investment domain.
- Developed frontend components, conducted code reviews, and supported long-term product evolution.

07/2011 - 08/2016

EDUCATION

Graduation in Information Technology

GuruNanak Institute of Engineering & Technology, Nagpur University - Bachelor's of Engineering

- First Class Division

09/2007 - 04/2011

CERTIFICATES

Certified SAFe® 5 Practitioner ↗

Scaled Agile Inc

07/2023 - 07/2023

SKILLS

React.js, Angular

API-driven Frontend Architecture

TypeScript, JavaScript (ES6+)

Server-Side Rendering concepts (Next.js)

HTML5, CSS3, SCSS

Secure frontend delivery and integration patterns

Micro-Frontend Architecture (Module Federation)

Web Accessibility: WCAG 2.2, ARIA, Semantic HTML

Nx Monorepo, Shared Component Libraries

End-to-End Testing: Cypress, Playwright

State Management: NgRx, Redux, Zustand

Code Quality & Governance: ESLint, SonarQube

RxJS, Lodash

GitHub, GitHub Actions

OpenAI SDK

Cloud & CI/CD workflows for shared codebases (AWS)

Prompt Engineering for developer productivity

Design Collaboration: Figma

Web Performance Optimization (code splitting, lazy loading)

GitHub Copilot