

# Swapnil Yelkar

Technical Lead Engineer | AI Engineer

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## SUMMARY

Technical Lead Engineer with 14+ years of experience delivering enterprise-scale applications in regulated environments. Strong background in UI and application architecture, cross-team technical leadership, and production systems. Recently expanded into Generative AI and Agentic AI systems, building AI-powered developer and productivity agents using Python, CrewAI, Google ADK, OpenAI MCP, and modern LLM tooling

### CORE SKILLS

- Technical Leadership & Architecture Direction.
- Enterprise Application Development (Web & UI Platforms)
- Angular & React Architecture (Shared Libraries, Design Systems).
- API-Driven Systems & Application Integrations.
- Cloud-Ready Frontend Platforms & CI/CD Pipelines
- SDLC, Code Reviews, Branching & Release Management.
- Performance Optimization & Production Support.
- Security-Aware Frontend Integration (OAuth, JWT concepts)
- Automated Testing & Quality Governance
- Agile / SAgile Delivery
- AI-Assisted Development (GitHub Copilot, OpenAI SDK)
- Designed and implemented Agentic AI workflows using Python, CrewAI, and Google ADK, focusing on task orchestration, tool usage, and multi-agent collaboration.

## EXPERIENCE

Roche (RIS) | Technical Lead Engineer | UI Architect

06/2022 - 10/2025

Navify Clinical Hub ↗

Navify Clinical Hub is a global clinical platform supporting oncology decision-making workflows.

- Set technical direction for frontend and application architecture across multiple initiatives within a large enterprise platform.
- Led design and implementation of Angular and React-based applications integrated with backend services and APIs in regulated environments.
- Acted as in-house technical expert, resolving complex architectural and production issues across teams.
- Delivered a production-ready AI Patient Chart proof-of-concept within one month, enabling executive buy-in and funding.
- Owned end-to-end delivery including design, build, testing, release, and stabilization phases.
- Drove modernization initiatives to standardize architecture, reduce technical debt, and improve long-term maintainability.
- Implemented performance optimization strategies including lazy loading and code splitting to improve runtime efficiency.
- Established automated testing strategies and quality gates using Jest, Testing Library, Cypress, and Playwright.
- Championed accessibility and compliance standards (WCAG 2.2, ARIA) across shared UI components.
- Served as Engineering Excellence Lead, defining review standards, governance practices, and mentoring junior engineers.
- Collaborated with global product, backend, platform, and leadership stakeholders.
- Explored and prototyped Generative AI and Agentic AI capabilities to enhance developer productivity and platform workflows, applying structured prompt design, agent orchestration, and enterprise-ready AI integration patterns.

Recognition:

- Rated “Exceeds Expectations” for three consecutive years.

<b>BMC Software   Sr. Product Developer</b> Helix Business Workflows - Innovation Suite Application ↗ Helix Business Workflows is a scalable SaaS case-management platform serving enterprise customers. <ul style="list-style-type: none"> <li>• Built and scaled frontend systems for a high-traffic SaaS platform used across multiple business domains.</li> <li>• Designed reusable Angular component libraries shared across teams.</li> <li>• Integrated frontend applications with backend services and APIs.</li> <li>• Collaborated with product and UX teams to refine user flows while maintaining system reliability.</li> <li>• Supported CI/CD pipelines and Agile delivery for shared codebases.</li> </ul>	01/2018 - 06/2022
<b>Cognizant   Associate Project</b> Helix Business Workflows - Application UI Developer, Cognizant (on-site at BMC Software) <ul style="list-style-type: none"> <li>• Developed reusable frontend components for enterprise-grade web applications.</li> <li>• Supported production systems and collaborated closely with client engineering teams.</li> </ul>	09/2016 - 01/2018
<b>Ebix Software India (Zinnia)   System Analyst - II</b> 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. <ul style="list-style-type: none"> <li>• Contributed to a large enterprise CRM platform in the insurance and investment domain.</li> <li>• Developed frontend components, conducted code reviews, and supported long-term product evolution.</li> </ul>	07/2011 - 08/2016
<b>EDUCATION</b>	
<b>Graduation in Information Technology</b> GuruNanak Institute of Engineering & Technology, Nagpur University - Bachelor's of Engineering <ul style="list-style-type: none"> <li>• First Class Division</li> </ul>	09/2007 - 04/2011
<b>CERTIFICATES</b>	
<b>AI Engineering Agentic Track : The Complete Agent &amp; MCP Course</b> ↗ Udemy	12/2025 - Present
<b>Google Agentic Kit (ADK)</b> ↗ Udemy	12/2025 - Present
<b>Karrikins Alignment Accelerator</b> ↗ Karrikins Group	01/2025 - Present
<b>Certified SAFe® 5 Practitioner</b> ↗ Scaled Agile Inc	07/2022 - 07/2023