

AMITESH AGRAHARI

Senior Frontend Engineer | React | TypeScript | Lit / Web Components | AI Applications

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PROFESSIONAL SUMMARY

Senior Frontend Engineer with 8+ years of continuous experience (2018 - Present) across enterprise frontend, full-stack/mobile delivery, and AI-agent applications. Builds responsive, accessible (WCAG 2.1, WAI-ARIA) banking and enterprise platforms with React, TypeScript, JavaScript, Lit, and standards-based Web Components. Experienced in reusable UI architecture, design systems, REST API integration, automated testing, CI/CD, team leadership, and AI-assisted delivery across international teams in Belgium and India.

TECHNICAL SKILLS

- **Frontend:** React, TypeScript, JavaScript (ES6+), Lit, Web Components, semantic HTML5, CSS3, responsive and mobile-first design
- **React Engineering:** functional components, hooks, Context API, state management, component composition, form handling, reusable UI patterns, performance-aware rendering
- **Accessibility:** WCAG 2.1, WAI-ARIA, keyboard accessibility, cross-browser compatibility
- **Testing & Quality:** Jest, React Testing Library, unit testing, component testing, debugging, code reviews
- **Backend & Data:** Node.js, REST APIs, PostgreSQL, online/offline data flows, local data handling, synchronization
- **AI Development:** LLM-powered applications, AI agents, prompt engineering, structured prompts, tool calling, workflow orchestration, rapid prototyping
- **Delivery & Collaboration:** Git, Azure DevOps Pipelines, CI/CD, Agile/Scrum, Figma collaboration, technical documentation

PROFESSIONAL EXPERIENCE

Senior Frontend Engineer / Technical Lead

May 2025 - Present

Tata Consultancy Services - Client: ING Belgium

Brussels, Belgium

- Develop responsive, accessible banking journeys with React and TypeScript using semantic HTML, WCAG 2.1, WAI-ARIA, and keyboard-accessibility practices.
- Design composable React features using functional components, hooks, Context API, clear state boundaries, reusable form patterns, and predictable API-driven flows.
- Build reusable Lit-based Web Components for shared component libraries and design systems; document component APIs, usage patterns, and architectural decisions.
- Lead code reviews, guide frontend architecture decisions, mentor engineers, and coordinate delivery with product, design, backend, and platform teams.
- Strengthen release reliability with Jest and React Testing Library unit and component tests, debugging, REST API integration, and Azure DevOps Pipelines for CI/CD.

Senior Frontend Engineer / Team Lead

January 2023 - April 2025

Tata Consultancy Services - Client: ING Lease

Brussels, Belgium / Remote

- Led a team of five engineers through task planning, code reviews, implementation support, and alignment with design and business requirements.
- Developed React-based interfaces for the digital lease journey and smart calculator, supporting users from estimation through subsequent application steps.
- Created reusable React components and shared UI patterns for forms, validations, conditional journeys, error states, and backend-integrated workflows.
- Contributed Lit-based Web Components where framework-independent, reusable functionality was needed across frontend contexts.
- Integrated REST services and handled asynchronous UI states to maintain dependable data flow and clear user feedback.

Frontend Engineer

January 2022 - December 2022

Tata Consultancy Services - Client: ING KYC / Onboarding

India / Remote

- Built and maintained frontend flows for KYC-based customer onboarding and account-opening journeys.
- Integrated REST APIs, implemented reusable components and validation logic, and resolved defects across responsive application screens.
- Supported code quality through peer review, maintainable component structure, unit testing, and Azure DevOps build and deployment pipelines.

Frontend Engineer

October 2020 - December 2021

Tata Consultancy Services - Client: Aviva

India / Remote

- Delivered responsive frontend features for insurance workflows and collaborated with cross-functional teams to refine requirements and resolve production issues.
- Built reusable JavaScript/TypeScript UI components, connected screens to REST services, and improved maintainability through testing and code review.
- Contributed to frontend modernization activities and supported structured releases within Agile delivery cycles.

Full-Stack / Mobile Application Developer (Freelance)

2018 - 2020

FieldFLEX

Remote

- Developed mobile application features using an MVC architecture, separating presentation, business logic, and data access for maintainable delivery.
- Extended Node.js services and PostgreSQL operations to support end-to-end field workflows across frontend, backend, and data layers.
- Implemented online/offline operating modes with local persistence and server-side synchronization, reducing data-loss risk during limited or unavailable connectivity.

SELECTED AI PROJECTS

AI Agent Starter Kit - Personal Project

2025 - Present

github.com/Amitesh2022

- Developed a reusable foundation for agent-oriented applications combining structured prompts, tool calling, modular workflow orchestration, and React-based frontend interaction patterns.

Jarvis - Personal AI Assistant

2025 - Present

github.com/Amitesh2022/jarvis-pro

- Built an LLM assistant interface for conversational task execution, tool integration, and multi-step workflow experimentation.

LEADERSHIP & IMPACT

- Mentored 45+ associates through frontend learning, technical guidance, code feedback, and onboarding support.
- Supported the migration of 150+ applications through frontend expertise, coordination, and structured delivery.
- Collaborate effectively with distributed teams and stakeholders across India and Belgium in Agile product environments.

EDUCATION

Bachelor of Technology in Computer Science and Engineering

2016 - 2020

JSS Academy of Technical Education

Noida, India

- Graduated with Honors - 84.8%.

LANGUAGES

English: Professional working proficiency **Hindi:** Native proficiency