

# NIKHIL KUMAR G

Senior Frontend Engineer — React.js — Scalable & Secure UI Systems

Bengaluru, Karnataka

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LinkedIn

## Professional Summary

Senior Frontend Engineer with 5+ years of experience building scalable, high-performance web applications for enterprise B2B and B2C platforms. Strong expertise in React.js, JavaScript, frontend architecture optimization, and secure UI design. Experienced in developing complex frontend platforms involving access control, document-driven workflows, and session-based user interactions.

## Skills

- **Frontend & UI:** React.js, JavaScript, HTML5, CSS3, Tailwind CSS, Sass/Less, Bootstrap, jQuery, Ajax
- **Frontend Architecture:** Performance Tuning, Memory Optimization, Component Reusability, CSS Encapsulation, Shadow DOM
- **Advanced UI Systems:** Role-Based Access Control (RBAC), Document-Driven UI, Session Management, Prompt & Chat History Workflows
- **Backend & Database (Working Knowledge):** MySQL, Basic Java
- **Tools & Platforms:** Git, GitLab, Bitbucket, Postman, Yarn, Visual Studio Code
- **Operating Systems:** Windows 7/10/11, Ubuntu (Linux)

## Work Experience

### TATA Consultancy Services (TCS), Bengaluru

System Engineer

April 2023 – December 2025

- Own frontend enhancements and stability for high-traffic enterprise web platforms, ensuring scalability, performance, and long-term maintainability.
- Perform in-depth code reviews, debugging, and performance analysis to reduce runtime issues and improve overall user experience.
- Optimized frontend assets and media delivery by converting PNG/JPEG images to WebM, improving page load speed by approximately 10%.
- Collaborate closely with backend and product teams to deliver secure, production-ready UI systems aligned with enterprise standards.

### Advanced Chatbot-Based Frontend Platform

- Designed and developed a complex chatbot-driven frontend platform with a strong focus on UI architecture, workflows, and usability.
- Implemented role-based access control (RBAC) at the UI level, ensuring project visibility, actions, and execution were restricted based on authenticated user roles.
- Built a multi-section interface comprising Source Documents, Prompt Library, and Session-Based Chat History to support long-running user interactions.

- Developed document-driven UI workflows where responses were generated by referencing uploaded source files, improving contextual relevance and traceability.
- Implemented rich frontend features including prompt saving, editing, copying, liking, and automatic timestamping to enhance user experience.
- Designed session-to-session chat history grouping, enabling users to revisit and manage historical interactions efficiently.
- Added UI-level reference indicators displaying document names and page numbers used in responses, improving transparency and user trust.

### **Codilar Technologies Pvt Ltd, Bengaluru**

*Front-End Developer*

*October 2020 – March 2023*

**Platforms Contributed To:** I-NQ (Museum eCommerce – Qatar), Rehandel (Multinational Electronics Retailer), Tigerone (Cannabis B2B & B2C Platform), EGC Supply (Industrial B2B Commerce), South-Smoke (Multi-store eCommerce)

- Engineered responsive, modular, and performance-optimized frontend systems using React.js, JavaScript, HTML, and CSS.
- Led frontend migration from Magento to React.js (Scandi PWA), reducing bug-related support tickets by approximately 25%.
- Refactored legacy frontend architecture and component logic, reducing codebase size by approximately 40% and improving maintainability.
- Improved delivery speed by designing reusable UI components, reducing development time by approximately 20%.
- Designed and implemented an advanced product image magnifier enabling micro-level product detail visibility.
- Optimized frontend execution and asset loading, reducing memory usage and execution overhead by approximately 50%.
- Developed a grouped wishlist feature using pure JavaScript for B2B platforms with shared user accounts.
- Implemented animations and parallax scrolling effects while maintaining optimal performance.
- Integrated Shadow DOM for sensitive product fields to prevent web scraping and DOM manipulation.
- Applied CSS encapsulation techniques to prevent styling leakage across modular components.

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### **Education**

#### **Bachelor of Engineering**

AMC Engineering College, Bengaluru

*2015 – 2019*