

Mohammed Murshid KK

Senior Frontend Architect | React & Microfrontend Specialist

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Professional Summary

Senior Frontend Architect with 4+ years building systems for 15M+ users across government and enterprise platforms. Expert in React microservices, AI integration, and performance optimization. Currently leading microfrontend architecture for government digital services. Proven: 40% performance gains, 70% API optimization, published NPM libraries serving 8+ teams.

Technical Expertise

- **Architecture:** MicroMicrofrontend (Module Federation), Component Libraries, System Design
- **Frontend:** React.js, Next.js,, Redux Toolkit, RTK Query, Redux-Saga, Server-Side Rendering
- **AI Integration:** OpenAI API, Google Gemini API, AI-powered workflows, Natural language interfaces
- **UI/Styling:** Shadcn/UI, Radix UI, Tailwind CSS, Material UI, Responsive Design, Bilingual interfaces (RTL)
- **Backend:** TypeScript, Node.js, Express.js, PostgreSQL, RESTful APIs, WebSocket
- **Quality Assurance:** Jest, Vitest, React Testing Library, Storybook, CI/CD
- **Development Practices:** Agile/Scrum, Code reviews, Technical mentoring, Git workflows

Professional Experience

Senior Frontend Architect | Information Kerala Mission (via Kiebot)

January 2025 - Present

Leading KSuite Microfrontend Architecture

Government office workflow platform serving state departments and universities

- Architected microfrontend system using Module Federation enabling 8+ teams to deploy independently across government offices and public portals
- Designed reusable component architecture reducing development time by 30% for standardized government UI patterns
- Implemented authentication supporting 10,000+ concurrent users across multiple departments
- **Technologies:** *React.js, TypeScript, Redux Toolkit, RTK Query, Module Federation*

KSmart Digital Governance Platform

India's largest citizen services platform - 15M+ registered users, 200+ services

- Led architecture of 3 core modules within React microfrontend system, reducing coupling by 60% and enabling independent team deployments
- Published NPM component library cutting delivery time by 25% across 8 teams (50+ components)
- Optimized performance: 40% faster loads (3.2s→1.9s), 70% fewer API calls via caching and code-splitting
- **Technologies:** *React.js, Next.js, TypeScript, Redux Toolkit, Redux-Saga, Microservices Architecture*

Senior Frontend Developer | Kiebot Learning Solutions Pvt Ltd

June 2022 - Present

Kiework HRMS - AI-Powered HR Platform

Enterprise system serving 300+ staff across 5 hospitals

- Built AI-powered HR assistant using OpenAI API enabling natural language queries for real-time data
- Built mobile-first HR app enabling remote approvals, attendance tracking, self-service
- **Technologies:** *Next.js, Redux Toolkit, Material UI, OpenAI API, WebSockets, Progressive Web App*

TORCAP - Enterprise POS System

Multi-location retail platform processing 5000+ daily transactions

- Developed bilingual POS (Arabic/English) increasing adoption by 45% across 15+ Saudi locations
- Built offline-first architecture ensuring reliability during network disruptions with auto-sync
- **Technologies:** *Next.js, Redux Toolkit, Material UI, Real-time sync*

Homestay Booking (AJJANAMANE)

Client project for boutique homestay business

- Implemented SSR reducing load from 3.2s→1.3s, improving SEO and UX
- Optimized caching reducing API calls by 70% for 1000+ monthly visitors
- **Technologies:** *Next.js, Material UI, SEO best practices*

Key Achievements

- Employee Recognition Award: [Certificate](#)
- **Leading microfrontend architecture** for Kerala government's digital services platform
- **Published NPM component library** used across 8+ development teams in production
- **Enterprise experience** across HR, POS, government, and booking system domains

Education

Bachelor's degree in Computer Applications

August 2018 - March 2021

University of Calicut

Side Project

Dazzlestay - Room Booking Platform (In Development)

Building a scalable booking system with dynamic pricing, real-time availability, 1000+ concurrent user capacity.

Technologies: *Node.js, Express.js, PostgreSQL, Next.js, Redux Toolkit, Chakra UI, Tailwind CSS*

Professional Interests

Senior Frontend Engineer | Frontend Architect | React Tech Lead | Senior Full-Stack Engineer roles at product companies building scalable platforms for millions of users.