

YOKESH KS

Full Stack Engineer | React.js • Node.js • PostgreSQL

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Summary

Full-Stack Developer with 4+ years of experience leading end-to-end feature development for enterprise applications using React.js, Next.js, Node.js, and PostgreSQL. Proven expertise in architecting scalable frontend systems, designing RESTful APIs, and optimizing database performance for production-grade platforms serving B2B and regulated industries.

Currently leading frontend architecture for an AI-powered enterprise CRM platform, where I own the complete development lifecycle—from translating product requirements into technical solutions to implementing responsive UIs, building microservices, and establishing CI/CD pipelines. Successfully reduced build times by 75% through strategic optimization and architected micro-frontend platforms for enterprise use.

Skills

Frontend Development

React.js, Next.js, JavaScript, HTML5, CSS3, Bootstrap, Responsive Design, Redux, Tailwind CSS, Webpack



DevOps & Testing

Git, CI/CD Pipelines (GitHub Actions), Docker, Jest, Cypress, AWS, Azure (Cloud Services)



Experience

Software Development Engineer II | Inresco

January 2024 - Present

Full-Stack Development & Architecture

- Led end-to-end development of micro-frontend platform using React.js and Next.js, architecting independent CRM, Support, and Admin modules with isolated deployment pipelines—reducing build times from 12 minutes to 3 minutes per module
- Designed and implemented RESTful APIs and microservices using Node.js for quote-to-booking workflows integrated with Hotel Reservation Systems, reducing sales cycle time by 40% and eliminating manual operational handoffs
- Built responsive, intuitive user interfaces for ABDM-compliant healthcare platform achieving M1–M3 certifications using FHIR R4 standards and consent-based architecture
- Developed internal HRMS platform using Next.js with WhatsApp Business API integration, serving 40+ employees with automated workflows

Backend Systems & APIs

- Architected AWS SES-based Email SaaS platform processing 60K+ emails/month with real-time analytics using Node.js, SNS, and Lambda serverless pipelines
- Designed and implemented microservices architecture with RESTful APIs, WebSockets for real-time features, and OAuth 2.0 authentication

AI Integration & Innovation

- Deployed production RAG-based conversational AI using LangChain and Pinecone, handling 800+ weekly conversations and reducing manual booking effort

Experience

Software Engineer – Full Stack | Inresco

July 2023 - December 2023

Aceprep (Q3 2023) - AI-Powered Mock Interview Platform

- Built Aceprep from ground up, an AI-driven interview preparation platform with personalized coaching, mock interviews, and adaptive question banks across 12 industries
- Developed end-to-end AI feedback pipeline: implemented video capture with WebRTC, audio extraction, OpenAI Whisper integration for speech-to-text conversion, and structured feedback generation achieving 85% user satisfaction scores
- Created role-specific interview modules with 1,000+ tailored practice questions across SDE, Product, Marketing, and Finance roles, plus live coding environment with 50+ algorithm challenges supporting real-time execution

Outreach (Q4 2023) - Omnichannel Social Media Management Platform

- Engineered scalable architecture for Outreach, a unified platform for publishing and managing content across LinkedIn, X, Instagram, Facebook, and Google Business
- Integrated multiple third-party APIs (Meta Graph API, LinkedIn API, Google Business API) enabling one-click cross-platform publishing with approval workflows and AI-powered content ideation
- Developed performance intelligence dashboard for data-driven optimization, tracking 50+ engagement metrics across all connected platforms with systematized Google Reviews reply feature processing 200+ reviews/month

Software Engineer | Inresco

January 2022 - June 2023

- Led React Native upgrade (v0.63 → v0.71) for Edvanza mobile app, resolving 30+ breaking changes and ensuring backward compatibility across 15 production modules serving 50K+ monthly active users
- Delivered production critical features including Jobs marketplace, Career portal, and Learning Management System (LMS) across web and mobile platforms, driving 25% increase in user engagement
- Rebuilt marketing website with Astro framework, achieving 60% improvement in page load times (3.2s → 1.3s) and 40% increase in organic traffic through SEO optimization and performance tuning
- Introduced React Query for global state management, reducing redundant API calls by 45% and improving cache hit rates from 30% to 75% across the application
- Implemented global search functionality and contributed to Cypress browser based testing framework, achieving 70% test coverage across critical user journeys

Software Engineer Trainee | Inresco

November 2021 - January 2022

- Engineered the Social Module for Edvanza mobile app using React Native: Social Feeds, Discussion forum, and Network features enabling 10K+ monthly peer interactions
- Spearheaded the development of a component architecture with 20+ reusable components for the Edvanza mobile application, ensuring code consistency and reusability while integrating REST APIs for seamless data flow across social features

Education

Government College of Technology, Coimbatore

M.E. Engineering Design

Masters of Engineering • 8.45 GPA

January 05, 2019 - September 15, 2021

Panimalar Institute of Technology, Chennai

B.E. Mechanical Engineering

Bachelor of Engineering • 7.7 GPA

June 2015 - Mar 2019

Projects

Quantum Commerce (E-Commerce Management Platform)

React.js · TypeScript · Node.js · MongoDB · Redux Saga · Webpack · Jest

- Engineered a full-stack e-commerce dashboard featuring product management (CRUD), JWT-based authentication, shopping cart functionality, and Stripe payment gateway integration
- Orchestrated complex asynchronous workflows with Redux Saga to manage cart state, checkout processes, and API error handling with automated retry logic
- Architected RESTful APIs with Node.js/Express backed by MongoDB, leveraging optimized indexing for high-performance product searches and transaction queries
- Configured Webpack for code splitting, lazy loading, and tree shaking—reducing initial bundle size by 40% (850 KB → 510 KB)
- Achieved 95% test coverage with Jest unit tests across Redux sagas, React components, and API endpoints, including integration tests for all critical user flows

Collab Canvas (Real-Time Collaboration Platform)

React.js · TypeScript · Node.js · Socket.io · MongoDB · Bootstrap

- Developed a real-time collaborative whiteboard using Socket.io WebSockets, supporting simultaneous multi-user drawing, text annotations, and shape creation
- Built a responsive UI with Bootstrap 5 and SCSS modules, fully optimized for mobile, tablet, and desktop with both touch and mouse interaction modes
- Implemented live user presence indicators, cursor tracking, and real-time chat; optimized React component lifecycles with useMemo and useCallback to eliminate unnecessary re-renders
- Designed a MongoDB schema for session persistence, user management, and workspace history with in-memory caching for active sessions
- Achieved sub-100 ms latency for real-time updates through Socket.io rooms, event batching, and optimized data serialization
- Maintained 80%+ test coverage with Jest for business logic and React Testing Library for component integration tests

Nex UI (React Component Library)

React.js · TypeScript · Webpack · Storybook · npm · Jest

- Architected a production-ready component library with 20+ reusable UI elements including buttons, forms, modals, tables, cards, tooltips, and navigation components
- Configured Webpack for library bundling with tree-shaking support, separate CSS extraction, and peer dependency externalization to minimize package size
- Built comprehensive Storybook documentation featuring interactive examples, props tables, accessibility audits, and usage guidelines for every component
- Published to the npm registry with semantic versioning, automated releases via GitHub Actions, and TypeScript declaration files for full IntelliSense support
- Achieved 100% WCAG 2.1 AA accessibility compliance with keyboard navigation, ARIA labels, focus management, and screen reader support
- Maintained 90%+ test coverage using Jest and React Testing Library, with automated visual regression testing to ensure consistent component rendering