

MURTAZA KHACHRODWALA

Senior Front-End Engineer | React.js & Next.js Specialist

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PROFESSIONAL SUMMARY

Senior Front-End Engineer with 6+ years of experience architecting and shipping React.js and Next.js applications across sustainability tech, healthcare, and government platforms. Specializes in front-end architecture, micro-frontend design, state management, API integration, and performance optimization (SSR/SSG, Core Web Vitals). Converts complex Figma designs into accessible, production-ready code and applies AI-assisted development to accelerate delivery without compromising quality. Mentors engineers and leads adoption of modern front-end tooling and design systems across cross-functional teams.

TECHNICAL SKILLS

Languages & Frameworks: JavaScript (ES6+), TypeScript, React.js, Next.js (App Router), Node.js, Micro-Frontend Architecture

State Management: Redux, Redux Toolkit, Context API, Zustand

Styling & UI: Tailwind CSS, ShadCN/UI, SCSS/CSS3, Storybook, Design Systems, Responsive & Accessible (a11y) Design

API & Data: REST APIs, Axios, GraphQL, tRPC, Zod, PostgreSQL

Testing & Quality: Jest, React Testing Library, Cypress, Codacy, Unit & Integration Testing

Tooling & DevOps: Git, Bitbucket, CI/CD Pipelines, Webpack, ESLint, Docker, AWS S3, Vercel

AI & Productivity: Prompt Engineering, AI-Assisted Development, GitHub Copilot-style workflows

Project Management: Jira, Zoho, Agile/Scrum

PROFESSIONAL EXPERIENCE

Senior Software Engineer — Simform Solutions Pvt. Ltd.

Jun 2024 – Present

- Architected microfrontend modules using React.js and Next.js, enabling feature teams to build and deploy independently.
- Built scalable React.js and Next.js applications by integrating AI-assisted development and prompt engineering into daily workflows, cutting time spent on boilerplate and repetitive debugging.
- Improved Core Web Vitals (LCP, CLS, INP) through SSR/SSG adoption and a redesigned caching strategy, delivering faster page loads and a more responsive user experience.
- Maintained high code quality through clean architecture and ESLint standards, and shortened issue-resolution time using AI-assisted debugging across API and state-management workflows.
- Mentored engineers on secure coding practices and led team-wide adoption of AI-assisted development tooling, improving delivery speed and consistency across the team.

React.js Developer — Webvillee Technology Pvt. Ltd.

Sep 2022 – Jun 2024

- Developed reusable, responsive React.js UI components for production-grade applications.
- Managed dynamic application state across multiple modules using Redux and Context API, reducing state-related bugs and inconsistencies.
- Designed and implemented a scalable front-end architecture that supported ongoing feature releases without requiring major refactors.
- Monitored and improved front-end performance across applications, reducing page load times through code-splitting and bundle optimization.
- Authored technical documentation for cross-functional teams, easing onboarding and improving development visibility.

Assistant System Engineer — Tata Consultancy Services Pvt. Ltd.

Oct 2020 – Sep 2022

- Delivered automated testing solutions for web-based applications using Java and Selenium WebDriver, reducing manual regression-testing effort.
- Created and executed automated test plans, cases, and scripts to identify, document, and resolve software issues prior to release.
- Applied Agile and Scrum methodologies throughout the software development lifecycle.
- Standardized test-case documentation and review processes across the SDLC.

Web Developer — Falak Creation Pvt. Ltd.

Jul 2020 – Sep 2020

- Wrote well-designed, testable, and efficient code across client projects following industry best practices.
- Built responsive website layouts and user interfaces for client sites using standard HTML/CSS practices.
- Integrated data from multiple back-end services and databases into client-facing applications.
- Gathered and refined technical specifications and requirements from stakeholders.

KEY PROJECTS

Life Cycle Assessment (LCA) Platform

An AI-powered sustainability platform for the construction and manufacturing sectors, helping organizations measure, analyze, and reduce environmental impact through life cycle assessments (LCA) and Environmental Product Declarations (EPDs) across building, infrastructure, and renovation projects.

- Developed high-performance, reusable React.js UI components and translated complex LCA workflows into intuitive interfaces for non-technical users.
- Collaborated cross-functionally to integrate frontend components with backend services and REST APIs, ensuring accessibility and cross-browser compatibility.
- Optimized frontend rendering performance for large environmental-assessment datasets while maintaining a clean, scalable code architecture.

Tech Stack: React.js, JavaScript (ES6+), HTML5, CSS3/SCSS, Redux/Context API, REST APIs (Axios), React Router, Webpack, Jest, Git, CI/CD

Social Health Chat Application

An anonymous social networking platform built with Next.js for mental health and recovery support, combining wellness tools, goal tracking, and peer chat groups in a privacy-first, secure experience.

- Built responsive, SEO-optimized UI using Next.js (SSR/SSG) and translated Figma designs into a reusable, component-based design system with React and ShadCN/UI.
- Implemented type-safe validation with Zod and a fully typed tRPC API layer; enabled real-time chat via Stream Chat with PostgreSQL for data persistence.
- Managed complex application state with Redux Toolkit and reduced bundle size through lazy loading and code-splitting, improving time-to-interactive for end users.

Tech Stack: Next.js, TypeScript, tRPC, Zod, Redux Toolkit, ShadCN/UI, PostgreSQL, Stream Chat, Figma, Airtable, Jira, Bitbucket, AWS S3

Social Housing Oman

A government-facing platform streamlining social housing benefit applications across Oman, enabling efficient document verification and secure digital signatures with a strong focus on compliance and equitable service delivery.

- Converted Figma designs into responsive, accessible React components and developed UI workflows from structured Excel-based requirements integrated with REST APIs.
- Implemented secure document upload and digital signature features meeting government compliance standards, with protected and nested routing via React Router.
- Enhanced code quality by migrating key modules to TypeScript, reducing runtime errors, while managing application state using Redux.

Tech Stack: React.js, TypeScript, Redux, REST APIs, Axios, React Router, Tailwind CSS, AWS S3

Restaurant Table Booking System

A multi-role React application digitizing restaurant reservations, giving Superadmins, Admins, and Customers tailored tools to manage bookings, availability, and operations.

- Built reusable, accessible React components (date/time pickers, reservation forms) with effective form validation for a responsive booking flow.
- Managed booking state with React state and Redux, integrating REST APIs for real-time table availability and asynchronous booking submissions.
- Configured protected, nested routing with React Router to enforce Superadmin, Admin, and Customer permissions, using Git for version control.

Tech Stack: React.js, React Router, REST APIs, Redux Toolkit, TypeScript, Axios, Material UI

EDUCATION

Bachelor of Engineering, Information Technology — Swami Vivekanand College of Engineering, Indore, India (2016 – 2020)

CERTIFICATIONS & ACCOMPLISHMENTS

- NPTEL Certification: Programming, Data Structures, and Algorithms using Python.
- LinkedIn Learning: React.js Essential Training, Angular Essential Training, Flask Essential Training, Building RESTful APIs with Flask.
- IIT Bombay: C/C++ Training.
- Recipient, On-the-Spot Team Award — Tata Consultancy Services.
- Recipient, Webvillee Star of the Month Award (x3).