

AJAY JAYAPALAN

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PROFESSIONAL SUMMARY

Software Engineer with **4+ years of experience** specializing in **React.js**, **TypeScript**, and modern UI development. Skilled in building scalable, high-performance web applications, optimizing component efficiency, and enhancing page load speeds. Adept at designing reusable UI libraries, improving user experience, and ensuring accessibility. Passionate about solving complex UI challenges, implementing secure coding practices, and safeguarding applications against vulnerabilities. Experienced in Agile environments, collaborating with cross-functional teams, and leveraging modern development tools for seamless project execution. Seeking Frontend roles in **Dubai** with a focus on **React/TypeScript/Node** and modern web tooling.

TECHNICAL SKILLS

Frontend Technologies: React.js, Three.js, Next.js, JavaScript (ES6+), TypeScript, d3.js, HTML5, CSS3, SCSS, MUI, Styled Components, Tailwind CSS

State Management: Redux, Redux Toolkit, Context API, Rematch, Zustand (familiar)

Performance Optimization: Lazy Loading, Memoization, Code Splitting, Tree Shaking

Build & Tooling: Webpack, Vite, Rollup, Babel, NPM, Yarn

Testing & Quality: Jest, React Testing Library (familiar), Unit & Integration Testing Principles

API & Backend Integration: Node.js, REST APIs, GraphQL (basic), Express.js, MongoDB, SQL

CI/CD & Version Control: Git, GitHub, GitLab (basic), GitHub Actions (familiar)

UX & Design: Figma to Code, Responsive Design, Accessibility (WCAG), Framer Motion, React Spring

Collaboration & Methodologies: Agile, Scrum, Jira, Slack, Code Reviews

Cloud Awareness: Basic familiarity with AWS/GCP platforms

PROFESSIONAL EXPERIENCE

Toobler Technologies, Infopark Kochi

July 2022 - August 2025

Software Engineer - React JS, IOT, Digitaltwin

- Developed and maintained scalable, reusable React and TypeScript component libraries, enabling faster development and consistent UI across multiple enterprise applications.
- Engineered dynamic viewers for various data formats (IFC, SVG, 3D models), enabling seamless visualization across complex datasets within React-based enterprise tools.
- Optimized frontend performance by implementing advanced techniques such as memoization, lazy loading, and tree shaking, improving page responsiveness by up to 60%.
- Built a reusable UI package using Rollup to bundle custom components, ensuring seamless integration and reducing duplication across projects.
- Enhanced user interfaces with real-time updates and dynamic rendering, improving interactivity and user experience across responsive web apps.
- Collaborated with cross-functional teams including designers, backend developers, and product managers in Agile sprints to deliver high-quality, user-focused solutions.
- Applied clean code principles, SOLID design patterns, and scalable architecture practices to maintain a maintainable, extendable, and production-ready codebase.
- Collaborated on backend integration workflows and implemented tools in Python and JavaScript to automate model conversion and accelerate 3D content delivery pipelines.

- Designed a scalable frontend architecture using JSON-driven configuration to enable dynamic creation of new pages and React routes, allowing seamless content updates without additional development overhead.
- Built and launched a responsive multi-city healthcare booking platform using React, delivering the first version in just one week, showcasing strong execution and rapid delivery in a fast-paced environment.
- Developed the MyKare Practice mobile app using React Native, allowing healthcare providers to manage bookings and appointments, improving operational efficiency and workflow automation.
- Created a real-time video consultation app using WebRTC (or generic term: real-time communication), enabling live interactions between doctors and patients, including prescription support—enhancing user convenience and trust.
- Built and integrated RESTful APIs using Express.js and MongoDB, contributing to the full-stack development and ensuring seamless data flow between front-end and back-end systems.
- Tackled complex UI challenges by developing reusable React components and shared UI libraries, enhancing consistency, reducing redundancy, and improving user experience across both web and mobile platforms.

Side Projects & Freelance works

- Built a TikTok-style short video application using React Native, implementing scroll-based reel navigation and interactive UI components to enhance user engagement and mobile performance.
- Developed a personal finance tracker app in React Native, enabling users to monitor expenses with a clean, user-friendly interface and persistent local data handling.
- Automated routine web tasks using Puppeteer.js to boost productivity, including login flows, data scraping, and browser-based workflow automation, showcasing initiative in process optimization.
- Designed and implemented a full-stack College Event Management System using Node.js, Express.js, MongoDB, and EJS in an MVC architecture, streamlining event registration and communication between students and administrators.

EDUCATION

Bachelor in Computer Science (2018 - 2021)
Mahatma Gandhi University
9th University Rank Holder.

ACHIEVEMENTS

2023 Budding Star Award, Toobler Technologies
For Performing at the highest level.

CERTIFICATIONS

- Web Development Bootcamp (MERN) - Udemy
- Responsive Web Design - FreeCodeCamp

LANGUAGES

- English
- Malayalam

REFERENCE

Rahmathulla T M
CTO, Mykare Health

Athira S
HR, Toobler Technologies

contact available upon request.
