

Rajesh Tiwari

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Senior Software Engineer

Senior Software Engineer with 10+ years of experience in Frontend (React, React Native, Redux, JavaScript, TypeScript) development. Proven expertise in building and optimizing high-performance web and mobile applications, primarily in OTA (Hotels and Flights) and Banking domains. Strong background in scalable architecture and performance optimization with a track record of delivering features that improve user trust, conversion, and customer retention. Backend experience with Java, Spring Boot, and REST APIs.

TECHNICAL EXPERIENCE

Senior Software Engineer / AirAsia

Aug 2021 — Present

Bangalore, India

- Led the development of OTA booking platforms across Web (React) and Mobile (React Native) to enhance the end-to-end booking experience, building features like hotel deals, promotions, and integrated payment flows; collaborated with cross-functional teams and delivered scalable, high-performing experiences that increased user engagement and platform reliability.
- Improved application performance to address slow loading and instability by implementing code-splitting, lazy loading, critical-path optimization, and refactoring Redux state management; this brought down load time by around 30
- Delivered features with strong engineering quality by working closely with product, design, backend, and QA, driving efficient development through code reviews, performance profiling, and A/B testing; this ensured stable releases, reduced regressions, and resulted in smoother user journeys.
- Enhanced the booking funnel to reduce drop-offs by optimizing page speed, refining user flows, and improving API response handling; these improvements increased conversions, boosted retention, and directly contributed to higher successful bookings.
- Built a shared library of reusable UI components for both Web and React Native to solve duplication issues and ensure design consistency across multiple Lines of Business; achieved this through modular, theme-aware components that were easy to integrate, leading to faster development cycles and uniform UX across the Super App.
- Developed and launched the Promotions pages for Hotels and Flight+Hotel across Web, iOS, and Android to improve promo visibility and traffic; implemented dynamic promo rendering and multi-platform integration, which significantly increased user visits and deal engagement.
- Implemented installment/EMI payment features to improve affordability for high-value bookings; integrated payment gateway APIs, built validation flows, and optimized UI interactions, resulting in increased conversion rates and reduced payment drop-offs.
- Created a self-serve Banner Management Dashboard to eliminate manual developer-driven CDN updates; built a CMS-style interface with automated publishing and scheduling, enabling the marketing team to manage banners independently and reducing update time from hours to minutes.
- Led the development of a native React Native one-page checkout to replace the slow and inconsistent WebView payment flow; architected reusable payment components, integrated secure card validation, and ensured cross-LOB compatibility, resulting in faster checkouts and higher payment success rates.
- Implemented a dynamic theme system to allow instant UI branding updates without code changes or app releases; integrated design tokens and remote config to update colors, typography, and layout variations on the fly, enabling rapid rebranding, experiments, and seasonal themes across the app.

Lead Engineer / HCL Software

Dec 2018 — Aug 2021

Pune, India

- Contributed to modernizing a legacy desktop enterprise tool into a web-based application to improve accessibility, usability, and long-term scalability. Rebuilt core modules using JavaScript, React, and Redux, applying modular architecture and reusable design patterns. This transformation made the platform significantly faster, easier to maintain, and accessible across browsers and devices.
- Supported the design of the frontend architecture for the EF (Enterprise Framework) platform to ensure a consistent development approach across teams. Defined patterns for state management, routing, API handling, and component structure, implementing them across key modules. This resulted in a scalable and predictable codebase that reduced technical complexity and improved development speed for future enhancements.
- Built a shared UI component library to reduce code duplication and standardize the user experience across EF products. Developed reusable components, validators, form controls, and utility functions with support for theming and configuration. This enabled multiple teams to reuse the same components, speeding up feature delivery while maintaining uniformity and lowering maintenance overhead.
- Developed an automated UI generation system to streamline creation of enterprise screens. Built parsing logic that converted JSON schema into dynamic UI forms with validation, field dependencies, and data binding. This significantly reduced manual frontend development time and ensured consistency across large, complex data-entry screens used in enterprise workflows.
- Improved application responsiveness to handle heavy enterprise workloads by identifying rendering issues, reducing bundle size, and implementing lazy loading, memoization, and optimized component re-render logic. These enhancements made the interface smoother, reduced load times, and delivered a noticeably better user experience for data-heavy modules.

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- Contributed to IBM Transformation Extender (ITX) by developing frontend modules and utilities for configuring large-scale data transformation pipelines. Implemented mapping logic, validation mechanisms, and workflow tools to support enterprise clients across finance, healthcare, and supply chain. This improved the accuracy, reliability, and flexibility of data transformation processes used by global clients.

Application Developer Analyst / Accenture Solutions Pvt. Ltd.

May 2016 — Nov 2018

Pune, India

- Contributed to migrating the UK Home Office Visa Application System from a large monolithic architecture to 34+ independent microservices to improve scalability, maintainability, and release flexibility. Helped redesign services using Java 8, Spring Boot, and PostgreSQL, implementing domain-driven boundaries and secure communication patterns. This migration reduced deployment time, improved fault isolation, and enabled faster development cycles for different visa processing modules.
- Developed secure, scalable APIs for critical visa processing workflows to support high-volume, sensitive government data. Built services using Spring Boot, Hibernate, JWT, and Spring Security to ensure role-based access, data integrity, and compliance with government security standards. This improved system reliability, reduced security vulnerabilities, and ensured smooth handling of millions of visa applications.
- Worked across the stack to modernize user interfaces and backend processes to enhance application usability and performance. Built responsive frontends with React and integrated them with backend services via REST, SOAP, and secure service layers. This improved user experience for applicants and caseworkers and ensured seamless interoperability across interconnected systems.
- Developed key modules for Commerzbank covering loans, retail banking, and corporate finance to support complex financial workflows. Implemented business logic using Java, Spring Boot, and database-driven transaction systems aligned with strict financial regulations. This strengthened operational efficiency and improved the accuracy of financial processing across multiple banking domains.
- Built and integrated backend services using Spring Security, REST APIs, SOAP-based services, and transactional workflows to ensure secure communication between banking systems. Focused on authentication, authorization, and data validation to support high-value banking operations. This contributed to improved system interoperability and reduced failures in cross-system communication.
- Developed responsive React-based frontends for customer and internal banking applications to enhance usability and streamline financial workflows. Integrated UI components with backend services, ensuring accurate data representation and seamless user interactions. This improved operational speed for staff and created a more intuitive experience for end users.

SKILLS

Technical Skills

Frontend (Primary)

React.js, React Native, Redux, JavaScript (ES6+), TypeScript, JSF (PrimeFaces), HTML5, CSS3, Tailwind CSS, Bootstrap

Backend (Exposure)

Java, Spring Boot, REST APIs

Databases

MongoDB, PostgreSQL, Oracle

Tools

Git, GitHub, GitLab, SVN, TFS, Jenkins, GitLab CI/CD, Maven, Docker, Tomcat, NGINX, Google Tag Manager (GTM), Google Analytics (GA4), Firebase Analytics, Firebase Remote Config, Firebase A/B Testing, Firebase Crashlytics, Postman, Swagger, Fiddler, Google Cloud Platform (GCP)

Practices

Agile/Scrum, Microservices, CI/CD, Code Splitting, Performance Optimization, Unit Testing

Communication

English, Hindi (fluent speaker)

EDUCATION

Education

- Master of Computer Applications (MCA), *DAVV University, Indore*
- Bachelor of Computer Applications (BCA), *BU University, Bhopal*

2016 | CGPA: 8.69

2012 | 75.68%

ACTIVITIES

Skills & Strengths

- Strong team player and independent contributor.
- Adaptive learner, staying updated with the latest JavaScript/React ecosystem trends.
- Passionate about frontend performance, scalable architectures, and cross-platform applications.
- Recognized consistently for excellence: received multiple performance awards at AirAsia, awarded for key contributions at HCL, and honoured with the ACE Award twice at Accenture for outstanding delivery and impact.