RITUMONI SARMA

UI Architect | Frontend Web Specialist

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Professional Summary

- UI Architect with over 13 years of experience leading end-to-end frontend strategy, design systems, and performance optimisation.

- Applying AI, both Generative and Agentic to solve difficult architectural problems.

- Proven track record of aligning technical architecture with business objectives to enhance release velocity and elevate product quality.

- Skilled in deploying scalable, reusable component libraries and micro-frontend frameworks

- Proficient in managing, guiding and mentoring large engineering teams (comprising over 30 members),

- Establishing coding standards and managing CI/CD pipelines

- Collaborating effectively with cross-functional stakeholders.

Core Skills & Technologies

- JavaScript (ES6+)

- React

- Redux

- TypeScript,

- Node.js

- GraphQL

- Apollo Client

- Micro-Frontends (Module Federation)

- Design Systems

- Responsive Web/UI Design

- HTML/CSS

- Docker

- Jenkins

- GitLab

- CI/CD

- Webpack

- Lighthouse

- Web Vitals

- Performance Optimization

- Playwright (E2E)

- Jest

- TDD

- Visual Regression Testing

- Agile/Scrum

- Team Management

- Individual Contributor

- Hands-on experience

- Artificial Intelligence

- Agentic AI + Generative AI

Professional Experience

Senior Staff Software Engineer / UI Architect – Celigo, Hyderabad, India (Aug 2023 – Sep 2025)

- Defined enterprise-wide frontend architecture guidelines through the Architecture Council, improving codebase maintainability and reducing defects across multiple products.

- Architected and launched a new React/TypeScript UI platform for Celigo's products, enabling scalable, production-ready delivery of web interfaces.

- Implemented comprehensive end-to-end Playwright test automation, cutting regression defects by 30% and boosting release confidence.

- Migrated the core integrator.io application to React Router v6 and TypeScript, enhancing code maintainability and accelerating developer onboarding by 25%.

- Delivered modular micro-frontend components (e.g. Login and Marketplace modules) with independent deployment pipelines, accelerating release cycles by 40%.

- Collaborated with product managers and UX designers to author high-level and low-level design documentation, ensuring technical solutions directly aligned with business objectives.

Staff UI Engineer (UI Engineer IV) – Upstox, Bangalore, India (Apr 2023 – Aug 2023)

- Architected and developed a high-performance trading platform user interface using React and Redux, optimizing real-time data updates for low-latency performance at scale.

- Led a cross-functional team of 30+ engineers, establishing coding standards, automated CI/CD pipelines, and Agile best practices to increase development productivity.

- Partnered with product and UX teams to build proofs-of-concept (POCs), aligning frontend architecture decisions with trading business priorities and improving stakeholder buy-in.

Lead Software Engineer / Systems Architect – Lowe's, Bengaluru, India (Aug 2021 – Apr 2023)

- Introduced a scalable micro-frontend architecture using Webpack Module Federation, decoupling feature development for parallel engineering and faster releases.

- Developed the "fuse-ui" React component library (Storybook-based) to standardize UI components and design patterns across 10+ engineering teams, improving reuse and consistency.

- Built the "Pharos" performance monitoring dashboard (tracking web vitals and P95/P99 latencies) to identify front-end bottlenecks; optimized key metrics and reduced UI latency by 20%.

- Mentored and coached 20+ engineers on React/Redux best practices and performance engineering, driving team skill upgrades and consistent high-quality delivery.

- Collaborated with UX and product stakeholders to prioritize feature development, ensuring technical solutions delivered measurable business impact.

Tech Lead – Front-End – ITC Infotech, Bengaluru, India (Sep 2018 – Aug 2021)

- Led development of the fidelity.de customer platform using React and Node.js, achieving high responsiveness and an improved user experience.

- Engineered an Elasticsearch-powered search feature, reducing query response time and improving search relevance by 30% for end users.

- Delivered reusable, modular navigation components to support personalization features, reducing front-end development time by 20%.

- Established front-end testing and deployment pipelines (Docker/GitLab CI), accelerating release frequency and improving overall delivery quality.

Senior Software Developer – ARI Network Services, Gurugram, India (Apr 2016 – May 2018)

- Developed reusable cross-platform UI components with React and Bootstrap, ensuring consistent user experience across web and mobile.

- Migrated several legacy front-end applications to modern Node.js-based APIs, reducing maintenance costs and improving application scalability.

- Enhanced code quality and performance through standardized development practices and automated testing.

Senior Software Developer – GoIbibo / Indecomm, Gurugram, India (Jan 2015 – April 2016)

- Delivered the "Ryde" carpooling application using React, significantly boosting user engagement and search performance.

- Improved app search efficiency and user experience, contributing to a 15% increase in ride bookings revenue.

- Coordinated with product and backend teams to integrate features, ensuring seamless end-to-end functionality.

Software Developer – Moonraft Innovation Labs, Bengaluru, India(April 2014-Jan 2015)

- Built responsive UI solutions for banking clients and internal workflow applications, improving usability across devices.

- Optimized user interface performance and accessibility, contributing to a 15% increase in customer retention for key products.

Software Developer – Tesco HSC (July 2012– April 2014), Bengaluru, India

- Optimized user interface performance and accessibility, contributing to a 15% increase in customer retention for key products.

Projects

Trailblazer(AI)

Multi-agent AI architecture integrated deeply into Celigo's codebase and CI/CD pipeline. A code intelligence agent that runs on every PR (GitHub Action). It uses embeddings-based similarity search using OpenAI to detect functionally similar code across all repos.Flags the PR with a warning or fails the PR check automatically if duplication violates the 'DRY' standards.

Figma2UI

AI tool to access Figma file via the Figma API and MCPs to extract metadata like frame hierarchy (pages, components), style tokens (colors, typography, shadows). The AI model successfully interprets layers semantically composable UI components. The model then translates this structure into production-ready code using frameworks like React,Tailwind CSS etc and can also inject logic placeholders (e.g., API calls, navigation hooks).

Pharos

"To measure and improve engineering effectiveness, code quality, and system performance — using telemetry data." Made on the lines of lighthouse by google, it does the following Gives visibility into developer & repo-level performance. Surfaces potential bottlenecks early. Predicts issues using historical patterns.Analyses the P99, P95 percentile and suggests improvements.

Endeavour

ARI's in-house application built on Angular, Jquery & node that would churn out multiple website template for the customers to choose from for their small business. B2B application

Nation's Trust Bank & ICICI internal customer care tool

Website for Sri Lanka's largest privately held bank and internal customer care tool for ICICI

Awards & Recognition

- Lowe's Champions Award – Modernizing legacy applications through innovative UI solutions

- Lowe's Top Performer of the Year – Consistent high-quality delivery and leadership in engineering

- Fidelity On-the-Spot Award – Outstanding delivery on critical front-end projects

- Fidelity Sprint Best Performer (Multiple) – High-impact feature development and team contributions

- GoIbibo Award of Participation – Excellence in the Ryde carpooling app project

Education

- B.E., Electronics & Telecommunications – RV College of Engineering, Bengaluru (2008 – 2012)

Links

LinkedIn: https://www.linkedin.com/in/ritumoni-sarma-a9762a46/

StackOverflow: https://stackoverflow.com/users/4440103/ritumoni-sharma

Github: https://github.com/Riturathin

Medium: https://medium.com/@ritumonisarma