

SUKANTA BISWAS

LEAD FRONTEND DEVELOPER

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Portfolio: <https://sukantabiswasdev.netlify.app> | LinkedIn: <https://www.linkedin.com/in/sukantab47> | GitHub: <https://github.com/sukanta47>

Summary

Lead UI Developer with **6.9 years** of expertise in **React, Redux, Next.js, TypeScript, Tailwind CSS, Angular**, and modern build tools like **Vite** and **Webpack**. Skilled in **SPA architecture, performance optimization**, and **Web Content Accessibility Guidelines (WCAG)**, achieving consistently **high Lighthouse scores**. Proven record of leading cross-functional teams delivering **scalable, defect-free** enterprise applications in **agile/scrum environments**.

Technical Skills

- **Frontend Development:** React.js, TypeScript, Next.js, Redux Toolkit (RTK), Zustand, Tailwind CSS, Material UI, Storybook
- **Architecture & Design:** SPA Architecture, Microfrontends, Component-Driven Design, Secure State Management
- **Performance & Security:** Code Splitting, Lazy Loading, Throttling/Debouncing, Lighthouse Optimization (90+ scores), WCAG Compliance
- **Build & DevOps:** Webpack, Vite, Jenkins, Netlify, Vercel, GitHub/GitLab CI/CD
- **Collaboration & Methodologies:** Agile/Scrum, Code Review Practices, Design Systems
- **Cloud & Data:** Firebase, Supabase, REST APIs, Data Visualization (Dashboards & Reports)

Work History

Lead Developer | TestYantra Software Solutions, Bengaluru | Jul 2024 - Nov 2025

- Modernized enterprise web applications using React, TypeScript, Redux, and Tailwind, achieving **90+ Lighthouse scores** across **performance, accessibility, SEO**, and **best practices**.
- Led a 14-member frontend team, delivering 6+ scalable platforms with **30% faster performance**, **25% quicker release** and **60% fewer UI defects**.
- Established **CI/CD pipelines** through **Netlify and Vercel**, enhancing deployment reliability and cutting release **times by 40%**.
- Launched a Weekly **Tech-Share** program to **boost team collaboration**, **standardize best practices**, and improve code review **efficiency by 25%** and raising overall engineering quality.

Senior Software Developer | FireFlink Pvt Limited, Bengaluru | Dec 2022 – Jun 2024

- **Engineered** an enterprise-grade **Automation Testing Platform** through close UI/UX collaboration, leveraging **microfrontend architecture** using React, Redux, TypeScript, and Tailwind CSS, while optimizing asynchronous workflows with **React Hooks** and **Promises** to enhance performance and scalability.
- **Developed reusable** front-end modules and the in-house **Pixel-React** component library, driving UI consistency, rapid development, and a **35% reduction** in defects.
- **Accelerated** tree structure rendering with **lazy loading** and dynamic node injection, achieving a **70% performance boost** and enabling enterprise-scale scalability.
- Guided and mentored **6+ developers**, streamlining code reviews and enforcing best practices to deliver **50% faster** UI response times with **35% fewer defects**.

Junior Software Engineer | TestYantra Software Solutions, Bengaluru | Feb 2019 – Nov 2022

- Engineered the development of **TestOptimize**, the early version of FireFlink Automation Tool, implementing **core SPA features** in **React** and **TypeScript** with clean, modular code practices.
- Ensured high-quality, stable releases by optimizing **UI performance** in key modules.
- Supported **CI/CD** with **Jenkins**, **streamlining deployment workflows** to accelerate delivery and improve release reliability.

Projects

1. EchoHelp - Emergency Help Service | React, TypeScript, Zustand, Supabase, Tailwind

- Built a scalable, real-time **emergency response platform** enabling **community reporting**, **live alerts**, and **blood donor** discovery.
- Implemented voice-based **Quick Report** and **Quick Donor Discovery** features, reducing **reporting time** by **70%** and **donor discovery time** by **40%**.
- Integrated Supabase **Realtime** for **<1s latency** notifications and location-based coordination, improving rescue **accuracy by 50%** in simulations.
- Optimized front-end architecture with **secure state management** and modular React patterns, maintaining **99.9%** uptime and seamless scalability.
- Demo Url: <https://echohelp.netlify.app>

2. FireFlink Smart Automation Platform | React, TypeScript, Tailwind, Redux RTK

- Designed **modular, microfrontend architecture**, achieving **70% faster load times** and **30% quicker test execution**.
- Ensured **WCAG-compliant** accessibility and secure API integrations for enterprise deployments.
- Built and maintained **Pixel-React**, an in-house component library, using Storybook and TypeScript
- Optimized Fireflink's tree rendering and execution flows, boosting front-end **responsiveness by 70%** and accelerating test suite **runtime by 30%**.
- Migrated legacy **Angular** modules to **React, Redux**, and **Tailwind CSS**, designing scalable components that streamlined automation script creation with reusable logic and conditional workflows.
- Demo link: <https://www.fireflink.com>

3. Jagadeva Kutumbakam - Community Platform | React, JavaScript, Tailwind, MUI, Redux RTK

- Directed a React + Redux platform for eligibility-based service access, improving **accessibility by 40%**, onboarding **15+ providers**, and serving **300+ users** in the first release.
- Demo link: <https://www.jagadevakutumbakam.com>

Education

Bachelor of Technology | ECE

Maulana Abul Kalam Azad University of Technology (formerly WBUT), Kolkata, WB

2013 - 16

GPA: 7.66/10

Diploma in Electronics and Telecommunications

West Bengal State Council of Technical Education (WBSCTE), Kolkata, WB

2010 - 13

GPA: 78.4%

Certifications

- **Core Java And Web Tech Certification**
JSpiders | Bengaluru, 2019
- **Introduction to PMI-RMP®**
Simplilearn | Issued Sep 2025, Credential ID 8996672