

Sahil Sharma — Frontend Architect

Noida, India

✉ ss2408.inbox@gmail.com • 📞 7018537638

🌐 sahilsharma2408.netlify.app • [LinkedIn](#) • [GitHub](#) • [X](#)

Technical Summary

Frontend Architect & Platform Engineer with 7+ years of expertise in building enterprise-scale applications, from ground-zero drag-and-drop editors to comprehensive design systems serving 5K+ engineers. Proven track record of architecting micro-frontend platforms, modernizing legacy systems, and delivering performance optimizations that drive measurable business impact.

Core Expertise

Full-Stack Architecture: Built complete drag-and-drop email editor with 15+ interactive components, personalization engines, and real-time preview systems

Design Systems Leadership: Architected 100+ component monorepo ecosystem with automated CI/CD, serving Product & Marketing contexts across multiple teams

Performance Engineering: Achieved 60% bundle reduction, 85% faster load times, and 70% memory optimization through advanced state management

Platform Modernization: Led large-scale migrations from legacy JSP/Servlet to React ecosystems, transforming monolithic architectures into scalable micro-frontends

Technical Arsenal

Programming Languages: JavaScript, TypeScript, HTML5, CSS3, Node.js, Python

Frontend Frameworks: React, Next.js, Redux Toolkit, RTK Query, Immer

Styling & UI: CSS-in-JS, LESS, PostCSS, CSS Modules, Tailwind CSS, BEM Methodology

Architecture & Patterns: Micro-frontends, Module Federation, Monorepos, Design Systems, Design Tokens

Build Tools & DevOps: Webpack 5, Turbo, Lerna, GitHub Actions, CI/CD, Kubernetes

Testing & Quality: Jest, React Testing Library, Storybook, ESLint, Prettier, SonarQube

Professional Experience

Frontend Architect — Drag-and-Drop Email Editor

Brevo • 01/2024 - Present • Noida

Architected and developed a full-stack drag-and-drop email editor from scratch using React, TypeScript, and Redux Toolkit, enabling users to create complex templates with 15+ interactive components.

- Implemented advanced drag-and-drop with Atlassian Pragmatic DnD, featuring custom drop zones, edge detection, and real-time feedback for intuitive UX
- Integrated and customized Froala rich text editor with AI assistance, personalization pills, font management, and custom plugins with real-time content synchronization
- Built responsive design system with live desktop/mobile preview, automatic layout optimization, and CSS-in-JS styling with LESS preprocessing
- Developed personalization engine with dynamic content variables, conditional display logic, and real-time template preview capabilities
- Created robust state management system with undo/redo, auto-save (debounced), and optimistic updates, leveraging Immer for immutable state and reducing memory usage by 70%
- Established monorepo architecture using Turbo with shared packages, standardized build processes, and automated CI/CD pipeline

Tech Stack: React, TypeScript, Redux Toolkit, Atlassian Pragmatic DnD, Froala, CSS-in-JS, LESS, Turbo

Technical Lead

Brevo • 04/2023 – 01/2024 • Noida

Marketing Corporate Website

Developed a comprehensive corporate marketing website from scratch using Next.js, serving as the primary digital presence for a CRM/marketing platform company.

- Built full-scale Next.js application with server-side rendering, static site generation, and modular component architecture for content management
- Developed comprehensive test coverage across multiple page types and components with Jest
- Created dynamic routing for various content types (careers, products, solutions, resources) with headless CMS integration
- Implemented responsive design with CSS Modules, Tailwind CSS, and PostCSS
- Established development workflow with ESLint, Prettier, and Husky git hooks

Tech Stack: Next.js, React, JavaScript, CSS Modules, Tailwind CSS, Jest, Husky

Design System

Built Design System from scratch - a comprehensive multi-package monorepo serving web applications across the Brevo ecosystem.

- Architected monorepo using Lerna, Yarn workspaces, and Turbo for efficient builds and caching
- Designed multi-context system supporting Product, Marketing, and Primitives with 100+ reusable components across all contexts
- Created CSS-only components, React components, design tokens, and SVG icon libraries following BEM methodology and WCAG accessibility guidelines
- Built comprehensive Storybook documentation and established testing strategy with Jest and React Testing Library
- Set up automated CI/CD pipeline with GitHub Actions, implementing changesets for semantic versioning and automated release management
- Created template generation tools and established GitHub Package Registry publishing workflow

Tech Stack: React, TypeScript, CSS, Lerna, Yarn Workspaces, Turbo, Storybook, Jest, GitHub Actions

Senior Software Engineer

Brevo • 04/2021 – 04/2022 • Noida

Micro-Frontend Platform

Architected and developed a scalable micro-frontend platform using Module Federation and React.

- Built dynamic micro-frontend container that loads child applications from centralized JSON configuration files, enabling zero-downtime deployments and runtime application management
- Set up automated CI/CD pipelines with ESLint, Prettier, and Husky pre-commit hooks
- Implemented comprehensive testing strategy with Jest and React Testing Library achieving 90%+ test coverage

Tech Stack: React, Module Federation, Webpack 5, Jest, React Testing Library

Segmentation - Query Builder

Built a comprehensive Query Builder system from scratch using React, supporting complex nested conditions, date ranges, events, and unified object filtering for segment creation.

- Implemented advanced filtering capabilities including attribute-based conditions, event property filtering, duration fields, and offset-based date selections
- Developed internationalization support for 7 languages with automated translation fetching

- Created robust error handling with comprehensive Jest test suites, snapshots, and error boundaries
- Built scalable component architecture using React Context API, custom hooks, and service layers for API integration
- Designed responsive UI components with custom LESS styling integrated with company design system

Tech Stack: React, Context API, LESS, Jest

Software Engineer

Tracnx • 05/2018 – 04/2019 • Bengaluru

- Translated business requirements into technical solutions using defined SDLC framework
- Designed, developed, and tested software components using appropriate tools and languages, adhering to code reviews and industry-standard development methodologies
- Provided technical problem resolution and coordinated feedback to management and users on all open issues

System Software Engineer

Infosys • 06/2017 – 05/2018 • Bengaluru

Led large-scale frontend migration of 100+ page Citizen banking application from legacy JSP/Servlet to modern React ecosystem.

- Architected transition from server-rendered to client-rendered architecture, implementing React, Redux, React Query, React Router, and Axios to modernize user experience
- Resolved significant technical debt by extracting tightly coupled backend logic and creating clean API layer separation
- Transformed monolithic server-side rendering to component-based client-side architecture, improving code maintainability and enabling scalable development practices
- Collaborated with frontend architect to develop comprehensive migration roadmap and execute phased transition strategy

Tech Stack: React, Redux, React Query, React Router, Axios

Key Achievements

- **Built enterprise drag-and-drop email editor from zero:** Complete React/TypeScript platform with 15+ interactive components and AI integration
- **Architected design system serving 5K+ engineers:** 100+ component monorepo with automated CI/CD, reducing development time by 40%

- **Speaker at React India & React Delhi:** Presented micro-frontends, monorepos, and enterprise React architectures to the developer community
 - **Achieved 85% performance improvement:** 60% bundle reduction and 70% memory optimization through advanced state management
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Education

B.Tech, Computer Science Engineering

Jaypee University of Information and Technology (JUIT) • 2014 – 2017

Certifications

- Design Systems Leadership
- Meta Frontend Developer Professional
- Next.js Certified Developer
- Web Performance Optimization