

DEBAYAN SEN

debayansen7187@gmail.com | +91 9073551506 | www.debayansen.com | linkedin.com/in/debayan-sen-72645055

PROFESSIONAL SUMMARY

Results-driven Tech Lead and Senior Frontend Engineer with 13+ years of enterprise experience building high-performance web applications for global clients including Bayer, Randstad, Verizon, Westpac, and Veritas. Proven track record of leading cross-functional engineering teams from architecture through delivery — enforcing WCAG 2.1 AA accessibility standards, achieving 90%+ test coverage, and delivering measurable reductions in production defects. Deep expertise in React/Next.js ecosystems, design systems, and scalable component architecture. Known for translating complex business requirements into clean, maintainable frontend solutions — on time and at scale.

TECHNICAL SKILLS

Frontend & Architecture: TypeScript, JavaScript (ES6+), React.js, Next.js, Vue.js/VueX, Redux (Toolkit/Saga), HTML5, CSS3/SASS, Tailwind CSS, Material UI, AngularJS/Angular

Design Systems & UI: Custom Component Libraries, Design Tokens, Multi-tenancy Architecture, Private NPM Registries, Responsive Web Design, WCAG 2.1 AA, JAWS Accessibility

Testing & Quality: Vitest, Playwright, Jest, React Testing Library, RxJS, Datadog, Adobe Analytics

Build & DevOps: Vite, Webpack, NPM/Yarn/PNPM, Git, Bitbucket, SVN, i18n/Internationalisation

AI & Integration: Prompt Engineering, LLM Integration (Gemini API, OpenAI), GitHub Copilot, Cursor, AI-Assisted Code Workflows

WORK EXPERIENCE

Cognizant Technologies

June 2022 – February 2026

Tech Lead — Randstad

- Architected a custom, enterprise-grade React component library supporting multi-tenancy and dynamic theme switching — distributed via a private NPM registry and adopted across multiple product teams, standardising UI delivery at scale.
- Enforced 85% test coverage across the codebase using Jest and React Testing Library, establishing quality gates that significantly improved production stability and reduced regression risk.
- Led end-to-end frontend delivery owning architecture decisions from design handoff through production deployment, ensuring on-time release across multiple sprints.

Stack: React.js, TypeScript, Next.js, Git, Jest, React Testing Library, Private NPM Registry

Tech Lead — Bayer OneDCE

- Architected and delivered a custom Vue.js component library that standardised the visual language across Bayer's global OneDCE product suite, enabling consistent UX across multiple teams and geographies.
- Integrated Datadog and Adobe Analytics instrumentation across the platform, significantly reducing Mean Time to Detect (MTTD) and enabling data-driven performance monitoring for stakeholders.
- Led cross-functional collaboration across global frontend teams, conducting architecture reviews, setting coding standards, and mentoring engineers to drive quality and velocity.

Stack: JavaScript, Vue.js, VueX, Git, Jest, Datadog, Adobe Analytics

Senior Software Developer — Verizon

- Directed a legacy refactoring initiative achieving 90% test coverage and a 34% reduction in production defects — one of the most impactful quality improvements on the platform.
- Spearheaded internationalisation (i18n) initiatives for regional data normalisation, expanding the platform's reach across multiple locales.
- Led frontend architecture for large-scale React/Redux consumer platforms with a strong focus on Core Web Vitals, rendering performance, and cross-browser compatibility.

Stack: HTML5, CSS3, SASS, JavaScript, React.js, Redux, Git, React Testing Library

Senior Software Developer — Westpac (Data-Out/In)

- Contributed as part of a 12-member team modernising legacy banking interfaces into a React, Redux, and Tailwind CSS stack — delivering a fully compliant, accessible platform aligned to financial-sector regulatory standards.
- Ensured full WCAG 2.1 AA accessibility compliance and JAWS screen reader compatibility throughout the rebuild, meeting strict enterprise and banking requirements.

Stack: HTML5, CSS3, SASS, JavaScript, React.js, Redux, Tailwind CSS, Bitbucket, React Testing Library

Wipro Technologies

November 2018 – June 2022

Technical Lead — Veritas e-Discovery Platform

- Architected a reactive, asynchronous frontend framework using RxJS to streamline UI state management and optimise REST API data consumption across a high-volume legal document management platform.
- Restructured development workflows and introduced project estimation frameworks — fostering a culture of mentorship, predictable delivery, and consistent engineering standards across the team.
- Delivered complex search and data visualisation interfaces handling large-scale legal datasets, optimised for both performance and usability under enterprise load conditions.

Stack: HTML5, CSS3, SASS, JavaScript, Angular, Angular Material, RXJS, Git

Technical Lead — HPE Server Management System (continued from Advantage One)

- Continued as Technical Lead following direct conversion to Wipro payroll, maintaining full project continuity and ownership of the frontend architecture for HPE's mission-critical server management dashboard.
- Acted as the primary technical point of contact, coordinating vendor resources and cross-functional teams to maintain high productivity and enforce rigorous development standards.
- Directed full-lifecycle development from initial scoping and roadmap planning through to milestone execution and operational deployment.

Stack: HTML5, CSS3, SASS, JavaScript, React.js, Redux, SVN

Advantage One Human Resourcing Pvt. Ltd.

March 2018 – November 2018

Technical Lead (Vendor to Wipro Technologies) — HPE Server Management System

- Engaged as a vendor resource placed at Wipro Technologies, leading frontend development on HPE's internal server management dashboard — a mission-critical platform used by infrastructure teams globally.
- Engineered modular, scalable frontend structures ensuring high system responsiveness, and acted as the primary technical liaison between Wipro's internal teams and cross-functional vendors.
- Delivered production-ready React UI modules with a quality-first approach including multi-device compatibility validation and thorough unit testing, enabling a seamless transition to direct Wipro engagement in November 2018.

Stack: HTML5, CSS3, SASS, JavaScript, React.js, Redux, SVN

Emami Frank Ross Ltd. (E-Commerce Division)

March 2016 – July 2017

Software Engineer

- Architected and maintained a high-performance single-page application (SPA) using AngularJS and Angular Material, delivering a responsive and reliable e-commerce experience that improved user retention under high-traffic conditions.
- Led the full project lifecycle from requirements analysis through to deployment, acting as the technical liaison for vendor teams and ensuring third-party contributions aligned with enterprise quality standards.

Stack: HTML5, CSS3, SASS, JavaScript, AngularJS, Angular Material, NGINX

PERSONAL PROJECTS

PixelSqueeze — Image Optimisation Tool

2026 (Live)

pixelsqueeze.debayansen.com

- Independently designed, architected, and shipped a full-stack image optimisation product — achieving up to 80% file size reduction with zero perceived quality loss using advanced compression algorithms.
- Built multi-format conversion support (JPEG, WebP, AVIF, GIF) and a smart thumbnail generator, demonstrating hands-on expertise in modern image performance standards directly applicable to frontend architecture decisions.
- Owned the complete product lifecycle — from UX design and frontend build through to deployment — showcasing full product ownership beyond an enterprise team context.

Stack: React.js, Next.js, TypeScript, Tailwind CSS, Image Processing APIs

Freelance — Client Portfolio Site

2026 (Live)

soumitabhattacharyasen.com

- Designed and delivered a professional portfolio website for a Senior BI Developer and Data Analyst client — managing requirements, design, development, and deployment end-to-end as an independent freelance engagement.

Stack: HTML5, CSS3, JavaScript, Responsive Design

clearUI — Open-Source UI Component Library

In Development

- Building a publicly available, fully documented React component library with a focus on accessibility, design token architecture, and developer experience — directly extending the design systems expertise demonstrated at Bayer and Randstad.
- Planned for open-source release on GitHub with a live documentation/demo site, contributing to the broader frontend community and establishing a public portfolio of independent architectural work.

Stack: React.js, TypeScript, Tailwind CSS, Storybook, NPM

EARLIER CAREER

2010 – 2016: Various frontend and software development roles across LearningMate Solutions, Bajillion Staffing Solutions, DynPro India, WIT Systems, and CES Technologies — delivering e-learning platforms, enterprise web projects, and government portals across Kolkata and Qatar.

EDUCATION & CERTIFICATIONS

ReactJS Nanodegree	2017 — Udacity
Oracle Certified Professional, Java SE 6 Programmer	Oracle
RedHat Certified Engineer (RHCE)	RedHat
Java Web Developer	Certification
Bachelor of Computer Applications (BCA), Computer Science(2007 – 2010) — M.S. Ramaiah College of Science, Arts & Commerce, Bangalore University	

INDUSTRY EXPOSURE

HR Technology | Pharmaceuticals & Life Sciences | Telecommunications | Banking & Financial Services | Legal Technology | Storage & Data Management | E-Commerce | E-Learning