Souvik Ghosh

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Technical Skills

Frontend: React (v19+), **Core Javascript**, TypeScript, JS (ES2023+), HTML5, CSS3, SCSS

State & APIs: Redux, React Query (TanStack Query), Zustand, Context API, REST APIs, **WebSocket**, Service Workers

Performance: Rendering Optimization, Bundle Optimization, Memoization, Virtualization, Lazy Loading

Architecture: Component Architecture, CSR/SSR, Design Systems, Monorepos, Microfrontends

Build & DevOps: Vite, Azure DevOps, AWS, Git, Jest, ESLint, Prettier, GitLeaks, Coverage

AI-assisted Development: Claude Code, GitHub Copilot, Codex, ChatGPT, Gemini, Perplexity

Familiar: Next.js, Node.js, Express.js, Webpack, Babel, Turborepo, Docker, Cypress, Python

Experience

Rootquotient — Apr 2023 – Jun 2026

Software Developer Engineer II — *Chennai*

- Architected a scalable **WebSocket-based communication platform** for incident management, enabling live messaging, dashboards, and Google Maps route synchronization while reducing update latency by 25%.
- Built reusable responsive **UI component libraries** using **Shadcn** and **Tailwind CSS**, adopted across **2+ fintech loan platforms**, reducing design effort by 40% and improving UI consistency.
- Automated release engineering by implementing **CI/CD pipelines** with **Azure DevOps**, **AWS**, automated testing, **GitLeaks** scanning, and artifact versioning, reducing release cycles by **20–30%**.
- Improved performance for data-intensive views rendering **50K+ records** using memoization, virtualization, incremental loading, lazy loading, and code splitting, reducing initial render time and improving runtime responsiveness by **20–45%**.
- Developed a shared **React component library** adopted across **3+ enterprise applications**, reducing duplicate code by 30% and accelerating feature delivery by 20%.
- Implemented a **service worker-based update mechanism** that detects new deployments and prompts users to refresh, reducing stale-client issues and increasing latest-version adoption by 30%.
- Built a modular **rich-text editor** shared across **5 applications** and integrated **Razorpay** using secure token-based authentication, supporting **59K+ monthly transactions**.
- Implemented **MSAL (Microsoft Entra ID)** authentication and **React Query persistence (offline cache)**, enabling secure authentication, offline-first data access, and seamless user sessions across enterprise applications.

Software Developer Engineer I

- Built a high-performance **React search and filtering system** with debouncing, pagination, and dynamic filters, improving search efficiency by 15% while reducing backend load by 20%.
- Developed a **role-based coupon management platform** with secure creation, distribution, and redemption workflows, increasing campaign conversions by 15%.

  Built a modular **React admin dashboard** using **Ant Design** and **Chart.js** for analytics, user management, and role-based access control, reducing manual administrative effort and report generation time by 30%.
- Improved developer productivity by creating a reusable **React boilerplate** with shared configurations, testing, **Git hooks**, CI integration, and scalable project architecture, reducing project setup time by 40%.

Innovaccer — Sep 2021 – Apr 2023

Associate Software Engineer — *Noida*

- Developed reusable, highly configurable **Custom dropdown components** with **multi-select**, **infinite scrolling**, search, clear/reset behavior, and **end-to-end test coverage**, adopted across **3+ healthcare products** serving **3.5M+ users**.
- Achieved **54%** to **87%** test coverage and reduced post-release defects by 20%.
- Worked with cross-functional teams (design/backend/mobile/product) across **3+ products**, participating in sprint planning and quality assurance.

Achievement / Leadership

- Earned a **4/5 performance rating** for consistently delivering high-impact projects under tight deadlines.
- Mentored the college technical club, won **1st Prize** for building an innovative application prototype, and reached the finals of the **Smart India Hackathon (SIH)**.
- Ranked **Top 8 nationally** in yoga and led organization-wide wellness sessions, demonstrating leadership beyond engineering.