

Swapnil Gupta

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SUMMARY

Software Engineer with **1+ years** of experience building scalable product platforms and enterprise applications using **React, TypeScript, and microfrontend architectures**. Specialised in performance optimisation, design systems, and modular frontend architectures for high-traffic production systems.

EXPERIENCE

Simplr

Associate Software Engineer

May 2025 – Present

Gurugram, India (Hybrid)

- **Shipped** Simplr's **configuration-driven navigation system** with a 3-level sidebar, **audience-segmented delivery**, and live admin customization for web navigation and mobile app navigation configuration, serving **500K+ MAUs**.
- **Built** Simplr's enterprise **theming system** using a cascading design-token architecture, enabling light/dark modes, per-component customization, and federated live preview.
- **Optimized FCP and LCP** by **~20%** through frontend build pipeline improvements, splitting application and vendor bundles via **Webpack** to leverage browser caching.
- **Reduced** bundle size by **30%** across applications consuming the shared UI library by optimizing its Rollup build configuration, improving **FCP** and **LCP**.
- **Delivered** 5+ production features spanning platform infrastructure, navigation, branding, and performance optimization.
- **Tech Stack:** React.js, TypeScript, React Query, Redux, Webpack, Module Federation, Jest, Grafana

Simplr

Software Engineer Intern

Jan 2025 – Apr 2025

Gurugram, India

- **Implemented responsive image delivery** with width descriptor-based srcset and signed URLs, reducing image download size by **~80%** and improving **LCP** by **~30%**.
- **Migrated** server-state management from Redux to **React Query** across hosts and micro-frontends, reducing redundant API requests by **70%** through **query caching** and background revalidation.
- **Integrated web replay** into **Grafana** and **Sitespeed** to improve the reliability of Core Web Vitals monitoring.
- **Enhanced** authentication workflows across standard and SSO login flows, improving login performance and reliability.
- **Tech Stack:** React.js, TypeScript, React Query, Redux, ImageKit, Grafana, Sitespeed

PROJECTS

CompileX Contests Focused Coding Platform

Jul 2024 – Aug 2024

- Built a full-stack online judge supporting coding practice, real-time coding battles, and contest management.
- Integrated multi-language code execution with hidden and public testcase validation using AWS Lambda.
- Built real-time leaderboard synchronization using WebSockets for live battle updates.
- **Tech Stack:** Next.js, TypeScript, Redux Toolkit, WebSockets, AWS Lambda, Django, Tailwind CSS

ChalkPad Real-Time Collaborative Whiteboard

Oct 2023 – Mar 2024

- Developed a collaborative whiteboard with real-time drawing synchronization using Socket.IO.
- Implemented a canvas rendering engine using Rough.js and Perfect Freehand for natural drawing interactions.
- Built element editing, resizing, movement, and session recording for collaborative editing workflows.
- **Tech Stack:** Next.js, Redux Toolkit, Socket.IO, Rough.js, Perfect Freehand, Tailwind CSS

TECHNICAL SKILLS

Programming Languages: TypeScript, JavaScript, C++, SQL, HTML, CSS

Frontend: React.js, Next.js, Redux, React Query, React Testing Library, Jest/Vitest, Accessibility (a11y), i18n, Tailwind

Backend: Node.js, Express.js, Nest.js

Tools: Storybook, SonarQube, Microfrontends, CI/CD, Git, Lighthouse, DevTools, Cursor, Claude

EDUCATION

Pranveer Singh Institute of Technology

Bachelor of Technology – Computer Science and Engineering

CGPA: 8.43/10

Kanpur, India

Nov 2021 – Jun 2025