

SWAPNIL SINGH

PRINCIPAL FRONTEND ENGINEER | FRONTEND ARCHITECTURE | PRODUCT ENGINEERING

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[Portfolio](#) | [LinkedIn](#) | [GitHub](#)

PROFESSIONAL SUMMARY

Principal-level frontend engineer and software architect with 11+ years of experience building digital products across startups and product teams. Combines frontend engineering, interface design, systems thinking, and technical leadership to deliver usable, maintainable applications. Experienced in React, TypeScript, web platform fundamentals, frontend architecture, design systems, web performance, automation, distributed systems, and AI-assisted development workflows. Has also developed Shopify apps and Swift iOS apps.

CORE SKILLS

Frontend Engineering: React, TypeScript, JavaScript, CSS, HTML, responsive interfaces, web platform APIs

Architecture & Systems: Frontend architecture, system design, distributed systems, API integration, scalability, maintainability

Performance & UX: Web performance, rendering, interaction performance, design systems, accessibility-minded UI development, interaction design

Frameworks & Runtime: Next.js, Astro, Node.js

AI & Automation: AI agents, AI-assisted development workflows, workflow automation, local inference and evaluation

Cloud & Delivery: AWS, CI/CD, build tooling, testing, Git

App Development: Shopify app development, Swift iOS app development

PROFESSIONAL EXPERIENCE

Solutions Architect | C22 | Apr 2026 – Present

- Work on solution architecture and technical direction for software products.
- Apply systems design and architecture principles to define boundaries, integrations, and implementation approaches.

Founder | C22 Foundation | Mar 2026 – Present

- Founded an initiative focused on open, reusable approaches to building software and AI-powered systems.
- Develop concepts and technical direction spanning agent workflows, automation, and developer-friendly abstractions.

Principal Architect | Self-employed | Jan 2025 – Mar 2026

- Designed and built digital products, combining product thinking, interface design, frontend engineering, and software architecture.
- Developed Shopify apps and Swift iOS apps.
- Worked across the product lifecycle, from shaping requirements and architecture to implementation and delivery.

Creator | Swadesi | Jun 2024 – Dec 2024

- Created and developed an independent product initiative, covering product direction and execution.

Director of Technology | People Interactive | Oct 2022 – Nov 2023

- Led technology direction and engineering execution, aligning implementation decisions with product and business needs.

Principal Engineer | People Interactive | Nov 2021 – Oct 2022

- Provided technical leadership across architecture, engineering decisions, and implementation quality.

Senior Manager | People Interactive | Dec 2019 – Oct 2021

- Supported engineering delivery and technical coordination across product development.

Senior Frontend Developer | Bizongo | Jan 2019 – Dec 2019

- Built and maintained frontend features for web applications, with a focus on usable interfaces and implementation quality.

Design Engineer | Self-employed | May 2015 – Dec 2018

- Worked across design and frontend development, translating product and visual requirements into functional web experiences.

Frontend Engineer | Indiavidual Learning | Jan 2014 – Apr 2015

- Developed frontend interfaces for web-based learning products.

Frontend Engineer | Iloho.com | May 2013 – Nov 2013

- Implemented frontend features and user interfaces for web products.

Web Developer / Designer | Solutions Infini Technologies India Pvt Ltd | Sep 2012 – Apr 2013

- Worked on web development and design, building website interfaces and related functionality.

Founder / Webmaster / Author | TrickTacToe | May 2011 – Sep 2012

- Founded and maintained a web publication, covering website management and content creation.

EDUCATION

B.Tech, Electrical and Electronics Engineering | Koneru Lakshmaiah College of Engineering | 2007 – 2011

LANGUAGES

English (Full Professional) | Hindi (Native/Bilingual) | Telugu (Native/Bilingual)