Shivastu Shrivastava

+91 7704025456 | shivastuu@gmail.com | LinkedIn | GitHub | Portfolio | Bangalore, India

Summary

Software Engineer with 2 years owning fintech products end to end at Niyo: React, Next.js and TypeScript on the web, Flutter and React Native on mobile, from architecture to production monitoring.

Experience

Niyo – Indian Fintech: Cards, Forex and Partner-Bank Products — Bangalore, India
Software Development Engineer I (SDE-1) — *Aug 2025 – Present*
Project Trainee — *Jan 2025 – Jul 2025*

Co-Branded Credit Card Module | *Flutter, Dart, BLoC, GetX, Kotlin, Firebase Remote Config*

- Scaffolded the **Flutter plugin** and co-built the card module **end to end** with one teammate: homepage, transactions, card controls, activation and statements on live bank APIs, hosting a React PWA over a JS bridge.
- Built and launched in-app **credit card bill payment (BBPS)** with fail-closed status polling that prevents duplicate payments, shipped via a Remote Config flag without an app update.
- Rebuilt **card activation** around PIN setup when the bank retired its activation API, and removed transaction-list lag by scoping BLoC rebuilds per tab.

Credit Card Onboarding PWA | *React, TypeScript, Vite, Workbox, Zustand, Sentry, Strapi CMS*

- **Led the onboarding PWA from an empty repo to production**, owning the PAN, Video KYC and CKYC flows and a status router mapping 12 CKYC states to 6 screens.
- Built **CMS-driven remote config** (Strapi) so ops change downtime notices and Video KYC agent hours without a redeploy, plus a secured-card offer on the rejection screen.
- Root-caused a **production outage** where a firewall rule blocked some generated JS chunk names and fixed it at the build level; fixed **iOS WebKit** cross-browser bugs.

Design System | *React, TypeScript, Material UI, Storybook, Vite*

- **Owned** the company's shared React design system **used by 20 internal apps**: built 22 of its 49 components from Figma tokens, shipped about 40 releases and wrote its adoption guide, incl. **Next.js**.
- Made it **tree-shakeable**; moving the Video KYC SDK onto it **cut that SDK by 78%** (2.9 MB to 651 KB).

Authentication, KYC and Platform SDKs | *React, TypeScript, Axios, WebCrypto, Web Locks API, gRPC-Web*

- Owned and developed embeddable **OTP login and PAN verification SDKs** that mount in any host app with one call, with HttpOnly-cookie sessions and single-flight token refresh across tabs (Web Locks API).
- **Top contributor** to the company's **end-to-end encrypted HTTP SDK**: per-domain key routing and encrypted error handling, and took npm audit from **24 vulnerabilities to 0**.
- Owned and developed an encrypted **telemetry SDK** capturing Core Web Vitals over gRPC-Web, and shipped a page scoring **Lighthouse 97 Performance / 100 Accessibility** on Slow 4G.

Compliance Workbench and React Native App | *React, single-spa, Redux-Saga, Expo, TanStack Query*

- Built **micro-frontend consoles** for KYC review and risk scoring with maker-checker approvals and gated PII.
- Shipped a **server-driven** React Native homepage (13 CMS sections) and OTP-verified debit card controls.

Projects

RedCell – Autonomous Red-Team for LLM Agents | *Python, LangGraph, FastMCP, Next.js*

- Built a **multi-agent LangGraph framework** that attacks tool-using LLM agents and **cut attack success from 59.5% to 0%** on a fixed 42-attack replay (31% adaptive) with layered defences and a CI gate.

Portfolio – shivastuu.netlify.app | *Next.js 16, TypeScript, GSAP, Netlify Functions*

- Built a statically generated **Next.js App Router** site with per-project case studies and an **AI assistant** that answers recruiters from my resume via a rate-limited serverless function.

Technical Skills

Languages: TypeScript, JavaScript (ES6+), HTML5, CSS3, Python, Dart
Frontend & Mobile: React, Next.js (App Router, SSG), React Native, Flutter, Redux, Zustand, TanStack Query
UI & Tools: Material UI, Tailwind CSS, Storybook, Vite, Webpack, Jest, Vitest, Sentry, Lighthouse, Git, CI/CD
Concepts: REST APIs, Web Performance, Core Web Vitals, Accessibility, Design Systems, Micro-Frontends, PWAs

Education

Thapar Institute of Engineering and Technology — Patiala, Punjab
Bachelor of Engineering (B.E.) in Electronics and Communication Engineering — *Oct 2021 – Oct 2025*