

Siddharth S Singh

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Full-stack TypeScript engineer with four years of production work, most of it as an independent contractor: React applications, APIs, Postgres, browser tooling, and a Rust/WebAssembly runtime. I take a product from an empty repository to a running service, and I maintain a published web framework. Client work has shipped in React, Vue, Angular, and Next.js.

EXPERIENCE

Software Engineer (contract) Apr 2024 — Present
Soapbox Remote

- Shipped the [nostr-canvas](#) plugin runtime in TypeScript and Rust, and clients built on it: **monorail**, a mobile-first React app with a marketplace and a social feed, and [tile-studio](#), a browser IDE for authoring plugins, with a chat pane, a live sandboxed preview, and a publish pipeline.
- Built that runtime into **Ditto v2**, a React and TypeScript client with a Capacitor shell: **117 commits** covering the embedding layer, a plugin marketplace, an install and permissions flow, and a threat model, plus the AI chat feature with its provider settings, session hooks, and tool system. Earlier I worked deeply on the Mastodon API in [Ditto v1](#), a Hono server.
- Contributed to [Nostrify](#), a core framework in Soapbox's Nostr tooling. I wrote the initial version of its Postgres storage adapter, compiling protocol filters to Kysely queries over postgres.js and setting up its migrations and benchmarks, and worked around a Deno compatibility bug in postgres.js to get it running. I also built SQLite- and LMDB-backed event stores, and migrated the Nostrify package graph off JSR onto npm so AI coding tools could resolve and build, and set up typechecking in CI.
- Shipped a browser extension with a permission UI and per-site grants, published to the [Chrome Web Store](#) and [Firefox Add-ons](#).
- Ported [luacheck-ts](#), a 22k-line static analyzer, to TypeScript so it runs in the browser, Deno, and Node from one codebase.

Freelance Software Engineer 2022 — Present
Fractional Finance · Ready Cloud Consulting · Common Ground Practice Remote

- Common Ground Practice**: built and deployed the full content site on Payload CMS and Next.js with Postgres and Docker Compose, including the admin model and the deploy path. Sole engineer.
- Fractional Finance (later Frabric)**: Vue front end and Ethereum integrations for a decentralised finance platform.
- Ready Cloud Consulting**: Angular front-end components for enterprise clients.

Founder and engineer 2023 — 2025
The Attention Button — an IoT desk toy, designed and sold Bangalore

- Designed, built, and sold an IoT product solo: enclosure CAD, a board I designed and fabricated, firmware, backend service, website, instruction leaflet, and packaging. Shipped to real customers with the hardware and firmware open-sourced.

Earlier freelance work 2019 — 2022
Alongside study at VIT Chennai

SELECTED PROJECTS

campfire — A reactive web framework: chainable DOM builder, reactive stores, no build step, no virtual DOM. Maintained [🌐 campfire.js.org](#) since 2021 on npm and JSR, with a docs site.

writers-jam — A weekly writing exercise and anti-social network. Deno service, running in production: **361 posts** [🌐 writersjam.shantaram.xyz](#) and **102,302 views** to date.

etu — Time-clock CLI for freelancers, in Deno and compiled to a single binary. KV storage, and invoicing through Liquid/ [🌐 xyzshantaram/etu](#) Typst templates fed a JSON context. I have billed my own contract work with it daily since 2024.

ink-editor — WYSIWYG markdown editor on CodeMirror 6, with vertical and horizontal modes. [🌐 xyzshantaram/ink-editor](#)

macrolight — A tiny cross-runtime syntax highlighter, a TypeScript rewrite of asvd's microlight. [🌐 xyzshantaram/macrolight](#)

SKILLS

Languages	TypeScript, JavaScript, Rust, Python, Lua, C, C++, SQL, HTML, CSS
Front end	React, Vue, Angular, Svelte, Next.js, Vite, web components, vanilla. Accessible, responsive, mobile-first work.
Mobile	Capacitor and Cordova wrappers around a React web app, React Native, Ionic. One TypeScript codebase shipped to web, Android, and iOS.
Back end	Deno, Node, Express, Payload CMS, REST+RPC APIs, WebSockets, auth/sessions, Postgres, SQLite, Kysely, Redis
Practice	Testing with Vitest and Playwright, CI pipelines, semantic release, code review, technical writing
Ops	Linux, Docker, dokku, nginx, self-hosted deployment. I run my own production services.
Working style	Independent, written-first, comfortable across every time zone, used to owning a project from scope to delivery.

EDUCATION AND SPEAKING

VIT Chennai 2020 — 2025
B.Tech, Electrical and Electronics Engineering Chennai, India

"Hackable By Default" — Talk at bitcoin++ Nairobi, 2026, on software that empowers users to extend it themselves, [📺youtu.be/PO1lggcj-Ic](#) by building systems easy for both people and computers to understand.

REFERENCES

Chad Curtis — Soapbox **James Sutton** — Fractional Finance **Jared Ready** — Ready Cloud Consulting Contact details on request.