

Shashank Agarwal

Staff / Principal Frontend

I specialise in data-dense high-performance canvases, embeddable and modular UI, configurable workspaces, and the planning that keeps those surfaces honest.



IMPACT

Data-dense high-performance canvases

I ship product canvases that stay interactive when the data is wide, typed, and live.

- Live GraphQL + WebSockets on [TaylorDb](#) (not local-first): tens of thousands of records, 20+ typed columns (multiselect, avatars, chips, files) on a canvas datagrid without UI jank — inline edit, global undo/redo, ephemeral optimistic state, built from scratch.
- Proprietary [iAnalyse](#) pivot in Angular: grouped rows and columns, infinite load, column resize, synchronized horizontal and vertical scroll, at 5,000+ rows.
- [Butlerapp Dashboard](#): backend-driven widgets and a grid composing on one screen without the workspace turning into a mashup.

Embeddable / modular design

I build UI that lives on other people's surfaces, or that other products can assemble.

- [Butlerapp Booking Form](#) is a revenue surface, not a form — embedded on 200+ sites, thousands of bookings a month.
- Surround widgets (calendar, offer card, accordion, table, login) so hosts present offers in their own layout.
- [react-native-molecules](#) became the UI foundation for internal products.
- Same idea off the clock: [json-schema-form](#) (schema + UI schema + renderers).

Configurable spaces

Operators keep a working setup instead of rebuilding it every day.

- [Butlerapp Dashboard](#) views: people could not save filters, sort, or layout — the same morning setup became one click.
- Views are the object widgets and filters hang off; [json-schema-form](#) and the hobby [Dashboard](#) are the same idea outside Webbee.

UI planning

I decide what the interface must compute and what the product is allowed to promise — then the canvas is honest.

- [SchnellTestButler](#): 2-minute slots across 15+ hours with no breaks. The frontend computed availability from holidays, booked-out times, and working-hour overlaps. 1,500 test centers at peak without hiccups. React Native check-in was an early ticketing app, later dropped when the business pivoted.

PROJECTS

[shashankagarwal.dev](#) this project

[Astro](#) · [Puppeteer](#) · [TypeScript](#) · [CSS Grid](#)

This CV: multi-language, print-faithful layout, build-time PDF. Craft of the page you are on — not a product claim.

[json-tree-editor](#) side project

[SolidJS](#) · [TypeScript](#) · [Web Component](#)

Large JSON trees for Solid (and other stacks via a web component). The source string stays the single document truth.

[json-schema-form](#) side project

[React](#) · [JSON Schema](#) · [UI Schema](#) · [TypeScript](#)

Schema-driven React forms: JSON Schema for validation, a UI Schema for layout, custom renderers when you need control.

🔗 **react-native-molecules** with Webbee

React Native · TypeScript

Shared React Native library that became the UI foundation for internal products (designed while leading TaylorDb).

Dashboard hobby, in progress

SolidJS · TanStack Query · Router

In progress. Hobby workflow engine / ERP-style builder so people compose dashboards and workflows on their own data. Unfinished — not a shipped product.

SELECTED WORK

Lead Frontend Engineer · Webbee GmbH

Aug 2020 – Present

Minsk, Belarus

Butlerapp (bookings CRM) and TaylorDb (AI app builder) — canvases, embeds, and configurable ops UI.

Butlerapp Booking Form

React · TypeScript · Redux Toolkit Query · Embeddable widgets

- Revenue surface embedded on 200+ websites; thousands of bookings a month.
- Host sites assemble calendar, offer card, accordion, table, and login widgets around the form.

SchnellTestButler

React Native · Expo · NativeBase

- 2-minute slots across 15+ hours with no breaks. Frontend computed availability from holidays, booked-out times, and working-hour overlaps.
- 1,500 test centers at peak COVID testing without hiccups.
- React Native check-in (early ticketing); later dropped when the business pivoted.

Butlerapp Dashboard

React Native · Expo · NativeBase · Widget systems

- Operators could not save filters, sort, or layout. Views made the same morning setup one click.
- Backend-driven widgets and a grid compose on one screen without the workspace falling apart.

TaylorDb — AI App Builder

React Native · GraphQL · WebSockets

- Live GraphQL + WebSockets canvas — not local-first. Tens of thousands of records, 20+ typed columns, no UI jank.
- Inline editing, global undo/redo, ephemeral optimistic state. Built from scratch.

UX Lead · Zycus India Pvt. Ltd.

Jan 2018 – Jul 2020

Mumbai, India · React · Angular 8

Source-to-pay platform. Unified frontend onto Angular 8 and shipped analysis UI.

iAnalyse pivot

Angular 8 · Custom pivot

- Proprietary Angular pivot for iAnalyse: grouped rows/columns, infinite load, column resize, synchronized horizontal and vertical scroll, at 5,000+ rows.
- Built as part of moving CRMS and iAnalyse off split jQuery stacks onto Angular 8.

Software Engineer II · Omnichanneler Technologies Pvt. Ltd.

Apr 2017 – Nov 2017

Bangalore, India · React · Backbone.js

Retail POS and multi-channel inventory; helped move key surfaces to React.

Assistant Project Manager · Unlock Technologies Pvt. Ltd.

Sep 2013 – Apr 2017

Mumbai, India · jQuery · AJAX · HTML5 · CSS3 · Ionic

Opened the company's mobile product line.

- Built the mobile line in Ionic — PayPointZ wallet and a hybrid e-auction app — a new stream of client work.
- Shipped production sites and apps; moved the org from VSS to Git.

SKILLS

Core	React · React Native · TypeScript · JavaScript · Node.js
Architecture	Design systems & component libraries · Accessible frontends
State & data	Redux · GraphQL · TanStack Query · TanStack Router · React Router
Styling	CSS-in-JS · Tailwind
Quality	Test-Driven Development · Vitest · Playwright · Unit / integration / E2E testing · Storybook · Debugging
Platforms	Next.js · Expo · Reanimated / Gesture Handler · SolidJS
Soft skills	Mentorship · Code review · AI-assisted engineering

SPOKEN LANGUAGES

Hindi (Native) · English (Fluent) · Russian (A1)

EDUCATION

Bachelor of Science in Information Technology

2009

University of Mumbai, Mumbai, India

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