

Samuel Bayer

Frontend Developer

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SUMMARY

Self-taught Frontend Developer with a React, Next.js, and TypeScript stack, focused on building production-quality, performance-oriented web applications. Approximately 18 months of intensive self-directed study, combining structured coursework with hands-on projects for a real business. Comfortable working independently, researching unfamiliar problems, and defending technical decisions in depth. Seeking a remote junior frontend role with an international team.

TECHNICAL SKILLS

Languages & Core: JavaScript (ES6+), TypeScript, HTML5, CSS3, SQL

Frameworks & Libraries: React, Next.js 14 (App Router), Tailwind CSS, TanStack Virtual, Vite

Tools & Practices: Git, GitHub, Web Workers, browser-based data processing (DuckDB-WASM), REST API integration, responsive design, unit testing (Vitest)

Currently learning: backend fundamentals, data structures & algorithms

PROJECTS

NYC Taxi Data Explorer — nyc-taxi-data-explorer.vercel.app | github.com/samuelbayer/nyc-taxi-data-explorer

- Client-side explorer for a 3.7M-row Parquet dataset (NYC taxi trips), with no backend.
- DuckDB-WASM runs SQL on the Parquet file in the browser, inside a Web Worker (Comlink).
- Rewrote the source file (61 → 24.7 MB, 228 row groups, sorted by date) to speed up loads and queries.
- TanStack Virtual table with SQL pagination and debounced filters that cancel stale responses.
- Mobile layout, Vitest tests, Vercel deploy; trade-offs and measurements documented in the README.
- Stack: React, TypeScript, Vite, TanStack Virtual, Web Workers, DuckDB-WASM.

Store & Bar Web Apps — Milagro y Felicidad (Paraguyan restaurant, Marbella, Spain)

- Built two interconnected web apps (store and bar) for a real, operating business, sharing a stack and design system; developed with AI assistance.
- Spreadsheet-synced product catalog, shopping cart, and order submission via WhatsApp.
- Stack: React, Next.js, TypeScript, Tailwind CSS.

EXPERIENCE

Shop Assistant — Como Pan Caliente (bakery, Marbella, Spain) · Mar 2023 – Jan 2025

- Customer service and cash handling, coffee and sandwich preparation, restocking and cleaning. The business, now Milagro y Felicidad, later became my first web development client.

CERTIFICATIONS

- freeCodeCamp — Responsive Web Design
- freeCodeCamp — JavaScript Algorithms and Data Structures
- freeCodeCamp — Front End Development Libraries: React, TypeScript (in progress)
- Google UX Design Professional Certificate (in progress)

EDUCATION

Self-directed study program (2024 – present) — Frontend development via freeCodeCamp, project-based learning, and independent research, in place of a formal degree.

LANGUAGES

Spanish (native) · English (B2/C1 — professional working proficiency)