

Edwin Julian

Front-End Engineer | React, Next.js, D3.js, TypeScript

Remote (Open to Global) · English (Professional)

edjulsin@gmail.com | edjulsin.dev | github.com/edjulsin | linkedin.com/in/edjulsin

Summary

Front-End Engineer with **6+ years of experience** building complex, real-time and interactive web applications, spanning independent development and production-grade commercial work with clients in remote teams. Strong in **React, Next.js, TypeScript, and D3.js**, focused on scalable architecture, performance optimization, and high-quality UI systems. Experienced in end-to-end feature delivery and collaborative development in remote product environments.

Technical Skills

Frontend & UI Systems

React, Next.js (App Router), JavaScript(ES6+), TypeScript, HTML5 Canvas, RxJS, Jotai, D3.js, Tailwind CSS, SASS, Radix UI, Figma

Backend & Platform

Supabase (PostgreSQL, Auth, RLS, Storage), REST APIs, GraphQL, Express.js, Docker, Vercel, Redis, MySQL

Architecture & Quality

State Management, Real-Time Systems, Performance Optimization, FP, CI/CD, Git, GitHub Actions, Webpack, Vite, Vitest, Playwright, SEO, Core Web Vitals, WCAG, Biome, ESLint

Professional Experience

Front-End Engineer

January 2020 – April 2026

Built and evolved **complex, real-time and interactive web applications** across independent and production-grade client work in remote environments, specializing in **React, Next.js, TypeScript, and D3.js**, with a focus on **scalable architecture and high-performance UI systems**.

- Built a **real-time financial visualization platform** with high-throughput rendering and optimized interaction performance for streaming data
- Developed a **custom CMS and drag-and-drop editor**, including layout persistence, image manipulation, and SEO-friendly output generation
- Engineered an **interactive real-time seat map chart for booking systems**, featuring zoomable map-like navigation, dynamic seat selection, and live availability updates optimized for mobile and high-conversion user flows.

- Solved performance-critical frontend challenges including **rendering optimization, virtualization, and event throttling for large datasets**
 - Optimized **Core Web Vitals and media performance**, reducing image payloads by 50%+ using responsive image pipelines and Next.js optimizations
 - Built **secure role-based access systems (Supabase RLS)** and integrated backend-driven permissions
 - Implemented **end-to-end testing (Vitest, Playwright)** for critical UI workflows like drag-and-drop and layout editing
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Selected Projects

FINNS — Booking Engine & Interactive Seat Chart ([Live Demo](#))

Next.js, TypeScript, D3.js, Tailwind CSS, Radix UI, Figma

- Developed an **interactive real-time seat map chart** with smooth UI transitions and responsive feedback to improve perceived performance, enabling intuitive navigation and mobile-friendly experience.
- Built a **conversion-focused booking engine** with optimized seat selection UX using **carousels and collapsible components** to reduce cognitive load and improve decision flow.
- Engineered a **non-blocking, adaptive UI system** with **dark theme and focus mode** to reduce **booking friction** and **cognitive overload** across devices.
- Implemented **smart selection features** (best available, filtering) and **shareable booking state via URL**.

Krypton — Real-Time Trading & Charting Platform ([Live Demo](#))

React, RxJS, D3.js, HTML5 Canvas, Webpack, Express

- Architected and built a **TradingView-class real-time charting system** from first principles, handling high-frequency market data and complex user interactions.
- Designed **RxJS-based streaming pipelines** for WebSocket data ingestion, implementing **reconnection and retry strategies** alongside **lazy loading, multi-chart synchronization, and multi-timeframe analysis**.
- Implemented a **high-performance canvas rendering pipeline** with **programmatic and gesture-driven pan/zoom**, responsive layouts, and mobile optimization.
- Developed a **configurable charting framework** (scales, indicators, themes, overlays) and a custom **color picker & popover system** for advanced visualization control.

Katt — CMS & Visual Blog Editor ([Live Demo](#))

Next.js, TypeScript, Supabase, Tailwind CSS, Radix UI

- Led the architecture and development of a **production-grade CMS**, owning the system across **frontend, data modeling, authentication, authorization, testing, and deployment**.
- Designed and built a **drag-and-drop visual editor** with a custom layout engine, image crop/resize tools, and responsive grid generation, enabling fully customizable and **SEO-optimized** pages.
- Optimized **image-heavy rendering paths** using **Next.js Image, ISR, and Core Web Vitals tuning**, significantly improving load performance without sacrificing visual quality.

- Designed **secure, multi-role collaboration workflows** using **Supabase Row Level Security (RLS)** and fine-grained permission models.
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Education

Full Stack Web Development Certification

freeCodeCamp

January 2019 – January 2020

Bachelor of Economics

Parahyangan Catholic University

August 2010 – March 2016