

JOHN PAOLO J. BAUTISTA

Fullstack React Developer | 5+ Years Modern Web Development Experience

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PROFESSIONAL SUMMARY

Fullstack React Developer with 5+ years of experience building scalable web applications using **TypeScript, Next.js, and React**. Proven track record of building production-ready MVPs handling **1,000+ users** (Ztock gamified trading simulator). Experienced in frontend performance optimization, modern state management patterns (Zustand/TanStack Query), and full-stack development with Supabase/MongoDB. Delivers maintainable code through strict TypeScript, Zod validation, comprehensive testing strategies, and systematic refactoring of legacy systems.

TECH STACK & EXPERTISE

Languages: TypeScript, JavaScript ES6+, SQL, HTML5/CSS3

Backend: Node.js/Express, Supabase (PostgreSQL), MongoDB, RESTful API Design

Testing: Jest, React Testing Library (RTL), Unit/Integration Testing

Frontend: React.js 18+, Next.js 14+, Redux Toolkit/Zustand, TailwindCSS

Data & Validation: Zod, TanStack Query

Tools & DevOps: Git/GitHub, Docker Basics, Basic CI/CD (GitHub Actions/CircleCI)

TECHNICAL EXPERIENCE

Upvio Virtual Healthtech Inc. • Senior Frontend Developer

Feb 2024 – Feb 2026

EHR SaaS Platform Optimization & Full-Stack Development

- Critical Bug Resolution:** Processed and resolved 25+ production support tickets weekly, implementing fixes that reduced Mean Time to Resolution (MTTR) by **25%** while maintaining 99.9% uptime for patient record systems handling thousands of records.
- Feature Development:** Implemented full-stack appointment geolocation features requiring MongoDB schema extensions and React frontend implementation.
- Performance Optimization:** Refactored legacy Next.js components using React 18 and dynamic imports, reducing initial bundle size by **20%** through code splitting and image optimization strategies.
- Technical Debt Reduction:** Done dependency updates while maintaining backward compatibility for legacy integrations.

Ztock • Mid Frontend Developer

Feb 2023 – Jan 2024

Gamified Investment Simulator (Production MVP)

- High-Load Frontend Architecture:** Built production-ready trading simulator frontend handling **1,000+ users** on launch day using Alpaca API integration with 15-second auto-revalidation cycles for real-time financial data.
- Real-Time Data Rendering:** Implemented polling connections for live stock price updates.
- Data Visualization Optimization:** Implemented responsive Rechart components displaying financial time-series data with precise value formatting and timeline synchronization while optimizing for mobile responsiveness.

- **B2B Marketplace Development:** Core development of medical supplies procurement platform handling inventory synchronization between vendor systems and buyer dashboards with real-time stock level updates.
- **Legacy Frontend Migration & Type-Driven Architecture:** Refactored legacy Rails HTML/React monolith into standalone **Next.js** application, implementing Zod validation schemas for complex marketplace transactions and establishing end-to-end type safety between React components and RESTful Rails API endpoints.

- **eSign Platform Development:** Improve and maintain e-signature platform using PSPDFKit.
- **Type-Safe Architecture:** Implemented backend using **trPC** while reusing existing NestJS services via adapter patterns, ensuring end-to-end type safety between frontend and backend without sacrificing legacy code compatibility and maintainability.

- **Legacy System Maintenance:** Maintained critical internal systems built with proprietary MagicXPA tools, ensuring business operations maintained approximately **99.9% uptime** through proactive monitoring and system troubleshooting.

FEATURED PROJECTS

GuroHub — Teacher Resource Marketplace & Automated Grading Platform

[gurohub.space](#)

Tech Stack: Next.js (App Router), Supabase (PostgreSQL with Row Level Security), TypeScript, Zod

- **Database Design:** Structured relational database schema with optimized relationships between teacher profiles, resource marketplace listings, and automated grading systems.
- **Data Layer Optimization:** Implemented efficient data transformation pipelines using Supabase for scalable educational resource storage. Optimized query performance to maintain responsiveness as user base grows.
- **School-Based Access Control:** Developing multi-tenant grade-sharing system with permission-based access controls across different schools using PostgreSQL Row Level Security (RLS) policies.

MyPersonalFitness — Offline-First Fitness PWA with AI Coaching

[github.com/phaxz10/MyFitnessApp](#)

Tech Stack: React, TypeScript, PGLite (PostgreSQL in IndexedDB), Zustand, OpenAI API

- **Database Architecture:** Designed an in-browser PostgreSQL database using PGLite, enabling complex queries and migrations entirely client-side without backend infrastructure.
- **AI Coaching System:** Built five domain-specific AI coaching modules using OpenAI's Responses API, with type-safe structured outputs validated by Zod schemas.
- **Offline-First Deployment:** Shipped as an installable PWA with full offline support and client-side Google Drive auto-backup for cross-device data sync.

EDUCATION

Bachelor of Science in Computer Science

Don Mariano Marcos Memorial State University

Dean's Lister (First Year)