

Kyle Osunero

Full-Stack Engineer — Web Platforms & AI Workflows

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Full-stack engineer with 4+ years building school operations platforms, logistics tools, and AI-augmented web apps. Shipped production features across 6+ client projects — from multi-provider mapping systems to OpenAI-powered data entry. Focused on turning ambiguous requirements into shipped, measurable product outcomes.

Education

Bachelor of Science in Software Engineering, Central Philippine University — Graduated June 2024

- Tools:
- Git, Docker, AWS, PostgreSQL, Figma
- Frameworks:
- React (17–19), Next.js (14–15), Node.js, Tailwind CSS
- Languages:
- TypeScript, JavaScript, Python, SQL, HTML/CSS
- AI & Automation:
- OpenAI API, AI Agents, RAG

AI-Native Engineering

- Integrated OpenAI across 3 production apps: auto-suggest for logistics (FlashCargo), document scanning (Advanced), data cleaning at scale (MySuperCheck).
- Built internal LLM-assisted workflows that cut feature-spec-to-deploy time by weeks.
- Shipped AI features from prototype to production in 2-3 week cycles.

EXPERIENCE

Frontend Developer II · MySchool Suite

January 2026 - April 2026

A US-based education technology company building digital tools that streamline school operations and keep school communities connected. I was part of the Iloilo City engineering team, focused on frontend architecture, operational dashboards, and maintainable UI systems.

- Architected scalable frontend systems used by administrators, faculty, and families across US schools.
- Built operational dashboards that gave administrators real-time visibility into school operations.
- Shipped accessible, maintainable UI systems and reusable component libraries across the platform.

Software Engineer I · SolX Technologies Inc.

July 2024 - November 2025

- Architected a multi-provider mapping solution (Google Maps, Stadia, Leaflet) visualizing complex geospatial data with custom boundaries and facility clustering.
- Designed type-safe backend layer with Next.js Server Actions + Drizzle ORM, eliminating a separate API layer.
- Developed robust form system with React Hook Form + Zod, implementing reusable inputs for complex data models.
- Engineered the 'Bundling' feature — a many-to-many asset management interface linking facilities to renewable energy portfolios.
- Designed and implemented a cron job system to automatically update sourcing event statuses, ensuring data consistency.
- Developed end-to-end 'Suppliers' management with custom selection modals and robust Yup validation.
- Integrated AWS SES for transactional emails and responsive React Email templates.
- Architected complex multi-step 'New Offer' forms using Formik with dynamic field arrays for fees and contracts.
- Refactored legacy MobX stores into local React state, improving render performance.

Tech: Next.js 15, React 19, TypeScript, Tailwind CSS v4, shadcn/ui, Leaflet, React Leaflet, PostgreSQL, Drizzle ORM, React Hook Form, Zod, Server Actions, React 17, Tailwind CSS

Software Engineer · StackTrek (Logistics)

February 2025 - July 2025

- Integrated OpenAI to auto-suggest commodity/pack types, reducing manual data entry per shipment for a freight forwarding platform.
- Developed full-stack booking management with status tracking and real-time comments (Next.js, Prisma, PostgreSQL).
- Engineered complex multi-step quotation forms for Air, Land, and Sea freight with Zod validation and dynamic state management.
- Optimized admin workflows by standardizing UI components and implementing mobile-responsive designs.

Tech: Next.js 14, TypeScript, PostgreSQL, Prisma, Redis, BullMQ, Tailwind CSS, Lucia Auth, Zod, OpenAI API, Docker, AWS

Software Engineer · StackTrek (Education)

April 2025 - June 2025

- Architected resilient ID capture and verification pipeline with webcam support and OpenAI integration for an AI education platform.
- Implemented registrant management with dynamic course selection and batch operations.
- Built diploma upload experience with refined UI/UX for mobile and desktop.
- Developed full-stack SSR application using React Router 7 and Cloudflare Workers.

Tech: React Router 7, Cloudflare Workers, PostgreSQL, Drizzle ORM, OpenAI SDK, Cloudflare R2, Tailwind CSS, TypeScript

Software Engineer · StackTrek (Platforms)

November 2023 - January 2025

- Developed a full-stack platform to rate and review all types of professionals, built with Next.js 14, TypeScript, and PostgreSQL.
- Engineered custom search with Elasticsearch — location + availability filtering across thousands of business records.
- Integrated OpenAI to automate data cleaning for thousands of business records, reducing manual cleanup.
- Implemented robust authentication flows including social login, email verification, and password recovery.
- Built a comprehensive request management system for profile updates and admin approvals.
- Engineered booking management for a women's health platform focused on fertility, pregnancy, and motherhood — including cancellations, rescheduling conflict resolution, and timezone handling.
- Integrated Stripe premium membership with automated notifications via Stripe.
- Added newsletter flow, service quiz, and reviews to boost user engagement.
- Strengthened security with JWT token refresh, secure logout, and integrated authentication.

Tech: Next.js 14, TypeScript, PostgreSQL, Drizzle ORM, Elasticsearch, Redis, Tailwind CSS, React Hook Form, Zod, OpenAI API, Google Maps API, Docker, AWS S3, Playwright

Frontend Developer Intern · ztock®

November 2022 - March 2023

- Built the Ztock mobile app using React Native.
- Contributed to backend development with GraphQL and Ruby on Rails.

Tech: React Native, GraphQL, Ruby on Rails, Apollo

PERSONAL PROJECTS

KomyuniMap — Co-Founder & Full-Stack Developer

July 2026 - Present

- Co-building a living map platform connecting barangay residents, vendors, and tricycle riders — enabling BUY, SELL, MOVE, and LIVE within their community.
- Engineered escrow-protected payments with automated vendor/rider/marketplace splits, real-time order tracking, and SMS fallback for low-connectivity areas.
- Built the mobile app (Expo + NativeWind) with Mapbox 3D maps and GPS tracking, and the web app on Next.js with a self-hosted Convex backend and Postgres S2 geo indexing.
- Designing onboarding for TODA & HOA ground partnerships ahead of pilot launch.

Tech: Next.js, Expo, React Native, NativeWind, TypeScript, Mapbox, Convex, PostgreSQL, S2 Geospatial, SMS API

komyunimap.klosystems.com/

KLOsystems — Consultant & Full-Stack Developer

June 2026 - Present

- Consulting for local enterprises and medical institutions across Western Visayas.
- Built company portal with clinical-light design system, interactive particle-canvas hero, and Zod-validated inquiry flows.
- Created OAS (Objectives Assessment System) platform simulator — role-based resident and director portals plus a clinical AI parser demoing secure ICD-10 extraction.
- Launched on klosystems.com with a Supabase-powered admin for consultation and audit request management.

Tech: Next.js, TypeScript, Tailwind CSS, Framer Motion, shadcn/ui, Zod, Supabase, PostgreSQL, Lucide

klosystems.com