Jim Danielle Encarnacion

Full-stack Developer & Founder — web, mobile and backend

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SUMMARY

Self-taught full-stack developer who takes products from first idea to shipped software and keeps them running. Founder of TicketHub, whose five client surfaces — buyer web, seated checkout, platform admin, an Expo mobile app and an offline-first Electron door station — run on one NestJS and PostgreSQL backend I built and operate.

EXPERIENCE

Founder & Full-stack Developer, TicketHub

2026 — Present

Multi-tenant ticketing and reservations platform · tickethub.cloud

- Built and operate the platform end to end from zero, owning product, architecture and delivery across five client applications on a single NestJS and PostgreSQL backend.
- Designed checkout so stock validation, ticket minting, commission and the wallet ledger all commit inside one Prisma transaction, with emails dispatched only after commit; money is integer cents from wire to database to UI. Automatic merchant disbursements route every decision — caps, hold windows, cooling-off, dual control — through one pure function that is unit-testable with no clock and no database.
- Secured ticket admission with an HMAC QR payload verified by constant-time compare, keeping the database as the source of truth so a replayed code returns `ALREADY_USED` rather than admitting twice.
- Shipped a seat-mapped checkout on geometry shared between the organizer's map editor and the buyer's seat picker, an Expo customer app with an offline-capable ticket wallet, and an Electron door station that queues scans when venue internet drops.

NestJS · Prisma · PostgreSQL · TanStack Start · Socket.IO · Expo · React Native · Electron · Zod

Full-stack & Mobile Developer, Socia

2025 — Present

- Shipped and maintained the web app, the iOS and Android apps, and the backend behind them.
- Owned releases and internal tooling on a small team where every release counted.

SELECTED PROJECTS

StudyBud

2025

Gamified AI study platform — four services, one monorepo

- Built a Next.js 15 student app, a NestJS API, a separate admin console and a Python/LiveKit voice agent over a shared MongoDB, with real-time multiplayer quiz rooms on Socket.io and a voice tutor that scores spoken explanations of uploaded material.

Next.js 15 · React 19 · NestJS · Prisma · MongoDB · LiveKit · Python · Socket.io

iChico

2025

Unified restaurant commerce — back-office, diner PWA and POS terminal

- Streamed product, order and kitchen state over Socket.IO instead of REST polling to keep a kitchen kanban and every POS terminal in sync, with Redis behind caching, rate limiting and the Socket.IO adapter; terminals authenticate as devices, so no staff credentials live on the hardware.

Next.js 15 · Vite · Tauri 2 · Express · Prisma · MongoDB · Redis · Socket.IO · Serwist PWA

TECHNICAL SKILLS

WEB	TypeScript, React 19, Next.js, TanStack Start / Router / Query, Tailwind CSS, shadcn/Radix, Zustand, GSAP
MOBILE & DESKTOP	React Native, Expo, NativeWind, MapLibre, Skia, Electron, Tauri 2, Vite
BACKEND	NestJS, Express, Prisma, PostgreSQL, MongoDB, Redis, Socket.IO, JWT & Passport, Zod, OpenAPI/Swagger, Python
ALSO	Docker, Stripe & PayMongo, LiveKit, Swagger

EDUCATION

Far Eastern University — BS Nursing 2023 - 2025

FEU Roosevelt — Senior High School, STEM 2021 - 2023