

# CHRISTIAN JAKE SUPNET

## Full Stack Developer

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### SUMMARY

Full Stack Developer with 3 years of experience building web and mobile applications with TypeScript, React, NestJS, Laravel, and PostgreSQL/MySQL. Main developer of a stays marketplace with Xendit payments, a double-entry ledger, and role-based dashboards. Experienced in booking and MRP/inventory systems, REST API design, and IoT/mobile apps. Works with an AI-assisted workflow (Claude Code) backed by spec-first planning and automated testing.

### TECHNICAL SKILLS

|              |                                                                                                            |
|--------------|------------------------------------------------------------------------------------------------------------|
| Languages    | TypeScript, JavaScript, PHP, Python, SQL, Dart                                                             |
| Frontend     | React, Next.js, Vite, TanStack Router/Query/Table, Tailwind CSS, shadcn/ui, Zustand, React Hook Form + Zod |
| Backend      | NestJS, Laravel, Node.js (Express.js), REST APIs, OpenAPI/Swagger, BullMQ, JWT/OAuth, RBAC                 |
| Mobile       | Flutter, React Native                                                                                      |
| Database     | PostgreSQL, MySQL, Prisma, Redis, MongoDB                                                                  |
| Integrations | Xendit, webhooks, Google Maps API, Gemini API, SMS/email providers, S3/Cloudflare R2                       |
| Testing      | Jest, Vitest, Playwright                                                                                   |
| DevOps       | Docker, Docker Compose, Nginx, Caddy, VPS, Proxmox, Git, GitHub Actions                                    |

### WORK EXPERIENCE

Full Stack Developer (Freelance) — Alacinto Marketplace Jul 2026 – Present

Multi-owner, Airbnb-style stays marketplace for the Philippines (v2), built from scratch

- Primary developer on a 2-developer team (~970 commits, 130+ merged PRs): TypeScript monorepo with a NestJS API, a guest/host React app, and a staff dashboard.
- Designed a PostgreSQL schema of 60+ Prisma models and ~160 REST endpoints across 18 modules, with an OpenAPI-generated typed client shared by both frontends.
- Built a double-entry, append-only ledger in integer centavos, with hourly reconciliation that freezes payouts on any mismatch.
- Prevented double bookings at the database layer (per-night unique constraint; PostgreSQL EXCLUDE constraint for overlapping rates).
- Integrated Xendit payments: idempotent webhooks, automatic reconciliation, refunds, payouts, and escrow released 24 hours after check-out (BullMQ jobs).
- Built session security beyond basic JWT: refresh-token rotation with reuse detection (a stolen token signs the user out on every device), admin TOTP 2FA with encrypted secrets, and deny-by-default permission guards.
- Built host onboarding with ID verification, affiliate referral commissions with self-dealing detection, and double-blind reviews.
- Used an AI-assisted workflow with Claude Code: spec → plan → test-first implementation, custom project skills, and 110+ architecture decision records. Every merge is gated by a local pipeline (typecheck, lint, unit, integration tests on real PostgreSQL, Playwright E2E).

Full Stack Developer — Socia (Onsite) Aug 2025 – Apr 2026

- Edens MRP (food manufacturing, 5-developer team): built financial reports (revenue, expenses, COGS), retail packaging, stock adjustments, and purchase-order/expense flows on a Laravel 12 + Sanctum API with a React (TanStack Router/Query/Table) dashboard.
- Worked on MRP logic: recipe-based material requirements, FEFO batch consumption with batch-level costing, and purchase suggestions for shortages.
- Built a real-estate rental platform (Next.js + Laravel API) for listings, staycations, and long-term leases, plus an internal React (Vite) CRM and operations dashboard.
- Deployed and maintained production applications on VPS using Docker, Nginx, and Redis.

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| <b>Alacinto Booking Website (v1)</b> · Next.js, Express.js, Prisma, MySQL                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2025 · Completed |
| <ul style="list-style-type: none"><li>• Built and launched a direct-booking website for a staycation business: listings, availability calendar, reservations, downpayments, cancellations, and reschedule requests.</li><li>• Built the admin side for managing bookings and verifying payments, deployed on a VPS with PM2 and scheduled jobs.</li></ul>                                                                                                                                                                       |                  |
| <b>MotoScan AI: Motorcycle OBD-II Diagnostics</b> · Flutter, TensorFlow Lite, scikit-learn, Gemini API                                                                                                                                                                                                                                                                                                                                                                                                                          | 2026             |
| <ul style="list-style-type: none"><li>• Android scan tool over a Bluetooth ELM327 adapter: live engine data (RPM, speed, temperatures, fuel trim) and fault-code (DTC) scans with saved history.</li><li>• On-device GRU model (Keras → TensorFlow Lite) that personalizes service intervals for 6 components from the rider's last 15 riding sessions.</li><li>• Random Forest exported to Dart (m2cgen) classifies fault root cause and severity offline; Gemini adds repair explanations with an offline fallback.</li></ul> |                  |
| <b>E-Trucking GPS Tracking</b> · React Native, React, Express.js, MySQL                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2025             |
| <ul style="list-style-type: none"><li>• Real-time location tracking for logistics trucks: driver app, web dashboard for live position and trip history, and an API with role-based access.</li></ul>                                                                                                                                                                                                                                                                                                                            |                  |
| <b>Face Recognition Attendance System</b> · React, Express.js, MySQL                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2025             |
| <ul style="list-style-type: none"><li>• Full-stack attendance platform with device-integration APIs and optimized queries for real-time logging.</li></ul>                                                                                                                                                                                                                                                                                                                                                                      |                  |
| <b>Cemetery Mapping Web Application</b> · React, Node.js, MySQL, Google Maps API                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2024             |
| <ul style="list-style-type: none"><li>• Grave search and virtual navigation with interactive map markers and a MySQL record store.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                    |                  |

PROJECTS

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| <b>IoT Pet Feeder</b> · Capstone Project                                                                                                                                                                | 2024 |
| <ul style="list-style-type: none"><li>• Automated pet feeder with scheduled and manual feeding through a React Native app, camera monitoring, and weight sensors for precise portion control.</li></ul> |      |

EDUCATION

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| <b>B.S. in Computer Engineering</b> — National University Bulacan | 2020 – 2024 |
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