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SUMMARY

- Full Stack and Mobile Developer with 100+ freelance builds delivered since 2022, plus own paid products for Android, Windows, and the web. Builds with Laravel, Next.js, Flutter, Kotlin/Jetpack Compose, and C#/.NET on Firebase, Supabase, and Cloudflare. Security-minded and test-backed (CSP and HSTS, Firebase App Check, encrypted PII, audit trails, unit test suites), and uses AI coding agents like Claude Code and Codex to ship fast without skipping the fundamentals.

SKILLS

- Languages:** TypeScript, JavaScript, PHP, Python, Kotlin, Dart, C#, Java, C, C++
- Frontend:** React, Next.js, Astro, Vite, Tailwind CSS, shadcn/ui, Inertia.js, SASS, GSAP
- Backend:** Laravel, Node.js, ASP.NET/.NET, Flask, REST APIs, MCP servers
- Mobile & Desktop:** Flutter, Kotlin with Jetpack Compose (Room, CameraX, Media3, ML Kit, Play Billing), Capacitor, C# WPF
- Database & Cloud:** MySQL, Firebase (Auth, Firestore, Functions, FCM, App Check), Supabase, Redis, Cloudflare (Workers, D1, KV, Durable Objects), Vercel, Docker
- AI & Computer Vision:** YOLOv8/v11, OpenCV, MediaPipe, Roboflow, ByteTrack, Whisper, RTSP, local LLMs (Gemma via Ollama/LM Studio), Anthropic and Gemini APIs
- Payments & APIs:** PayMongo, QR Ph, Polar, Google Calendar/Meet API, Web Push (VAPID)
- Testing & Security:** Pest, Vitest, JUnit, axe-core, CSP/HSTS, HMAC tokens, Turnstile, encrypted PII, audit trails
- Hardware & IoT:** Arduino, ESP32, IoT Systems
- Tools:** Git/GitHub, GitHub Actions, Claude Code, Codex, Figma, Redmine

EXPERIENCE

Zion Strategic Solutions

Bacoor, Cavite

Full Stack Developer

May 23, 2026 – Present

- Built DentEase solo, a multi-tenant dental clinic SaaS (Laravel 12, Blade, MySQL; 26 models, 89 migrations): interactive SVG dental chart, printable prescriptions, signed consent, patient ledger and invoicing, monthly auto-billing, QR self-registration, a hash-chain audit trail, and a nonce-based CSP with HSTS
- Building CrewSIP (Laravel 12, Inertia, React 19, TypeScript), a rebuild of a legacy ship-manning system: 20-tab crew profiles, a 14-component salary scale, allotment payroll, SSS/PhilHealth/Pag-IBIG remittances and bank files, with encrypted government IDs, audit logs, and Pest feature tests
- Developing the Zion PMS mobile app (Flutter) for work orders, incident reports, and QR scanning with client-side decryption, integrated with 17 ASP.NET Accounts and PMS endpoints through a branch-scoped API layer
- Built a sales KPI dashboard (Laravel 12, React 19, TanStack, Recharts) that replaces an Excel workbook with a weighted KPI engine, top-performer rankings, and Excel import/export

UpaMate

General Trias, Cavite

Co-Founder / Assistant Developer

June 1, 2026 – Present

- Co-leading product and engineering for UpaMate (upamate.com), a property management platform for landlords and tenants built on Laravel 12, MySQL, and Bootstrap 5
- Built features across admin, landlord, and tenant portals (4 auth guards): payment proofs, maintenance requests, analytics, encrypted personal data, audit logs, and database backup/restore with a safety snapshot before each restore

Socia

Taguig, PH

Full Stack Intern

February 10 – April 22, 2026

- Rebuilt the lootbx.com inventory page, navbar, and sidebar to match Figma (React, TypeScript, Vite PWA), working through Redmine tickets, feature branches, and pull requests
- Maintained the Mcars PH frontend (Next.js, Tailwind) and backend (Laravel, Redis, Docker), and studied the RZ Ecom API service (Next.js, Laravel)
- Built GazeFocus for the Socia Intern Hackathon: per-person attention tracking from MediaPipe 478-point face landmarks and YOLOv8s, streamed over WebSocket with a session engagement timeline

Self-Employed

Naic, Cavite

Freelance Full Stack Developer

2022 – Present

- Delivered 100+ freelance commissions with a 97% client satisfaction rate across web, mobile, desktop, and computer vision systems for schools, clinics, resorts, LGUs, and small businesses
- Owned each project end to end, from requirements and contracts to deployment and handover, delivering on time or early under tight deadlines

CVSU Naic ROTC Unit

Naic, Cavite

Corps S3 - Advance ROTC Cadet

2022 – 2025

- Supervised field training operations for 300+ cadets, coordinating drills and exercises and ensuring disciplined execution
- Developed training schedules and after-activity reports, mentored cadets, and strengthened unit leadership capability

HACKATHONS

Agri Tech Innovate Hackathon

Quezon City, PH

Second & Fourth Place Winning Participant

March 31 – Dec 10, 2025

- Completed all three phases (Ideation Workshop, Boot Camp & Mentoring, Demo Day) and represented ATI Calabarzon at the national level against 25 schools
- Built and pitched AKWATek in 5 days (React, TypeScript, Tailwind, AI vision): tilapia eye-darkening detection as a fast, non-invasive, low-cost stress indicator for aquaculture, presented to ATI, investors, and government and company leaders

AppBuildersPH Hackathon 2026: Local AI

Makati, PH

Team Member, OHMAKINIGKA!

October 9 – 10, 2026

- Contributed research, the UI mockup, and the demo video plan to SIBOL, an offline-first Grade 4 to 6 math tutor PWA for DepEd MATATAG that runs Gemma 4 on-device, with three learning modes for learners with disabilities (sibol-tutor.vercel.app)

DEVCON Camp Run: Build Overnight with Hermes Agent

Makati, PH

Solo Builder, Open Innovation Track

October 2, 2026

- Built Suki Pulse overnight: Hermes Agent with a 10-tool MCP server that turns customer complaints into operations fixes; triaged 694 complaints across 12 branches for US\$0.0163, 3.9x faster and 35x cheaper than Claude Haiku 4.5 (suki-pulse.vercel.app)

Shipaton Manila 2026

Manila, PH

Solo Builder, Worst Game Category

September 2026

- Built Rock Paper Scissor Lose! (rps.riecodes.com), a Flutter game for Android, macOS, and web whose Gemini referee always rules against the player, with GitHub Actions building the APK and DMG

PROJECTS

Gecko: Sticker Reminder App | Kotlin · Jetpack Compose · Room · ML Kit

Own Product

- Paid Android app (US\$1.99) with an in-house sticker physics solver, ML Kit subject cutouts, CameraX, a Glance home widget, and WorkManager reminders, covered by 91 JVM unit tests (gecko.riecodes.com)
- Ran Google Play closed testing through an 860-member Facebook community and promo codes; production release prepared for 172 countries

Notchy for Windows | C# · WPF · .NET 8 · Win32

Own Product

- Windows 11 notch that shows Claude Code and Codex usage limits and live session activity, fed by hooks over a named pipe; click-through, fullscreen-aware, and hidden from screen capture
- Sold at US\$1.99 with Polar license keys (notchyforwindows.com), shipped with an Inno Setup installer and MSIX packaging for the Microsoft Store

Webinar & Coaching Platform | Next.js 16 · Firebase · Cloudflare Workers

Own Product

- Live at webinar.riecodes.com: QR Ph checkout with payment webhooks, seat limits, 1-on-1 booking that auto-creates Google Calendar and Meet events, hand-written Web Push (RFC 8291, VAPID), and an AI chat assistant
- Hardened with scanner-path traps that auto-block IPs at the Vercel Firewall, rate limits, CSP, and HSTS

Panelista: Capstone Evaluator Marketplace | Next.js 16 · Firebase · Cloudflare Workers

Open Source

- Matches capstone groups with IT evaluators (158 requests, 30 evaluators) with a built-in ISO 25010 evaluation form, weighted results, and public certificate verification (panelista.vercel.app)
- Firebase App Check enforced on Firestore, the API, and the Worker; MIT-licensed on [GitHub](https://github.com) with a protected main branch and CI

Barker: Crowdsourced Bus Tracker | Cloudflare Workers · Durable Objects · D1 · Capacitor

Own Product

- Real-time bus tracker for the Ternate to PITX corridor (barker.riecodes.com): live map over WebSocket with short-lived HMAC tokens, Web Push alerts, MapLibre, and Android background GPS, designed to run at \$0 for 1k daily users

Foil and Cutly: Android Apps | Kotlin · Jetpack Compose · Media3 · Play Billing

Own Product

- Foil: offline QR card vault with a one-time Pro unlock through Play Billing, no accounts and no internet permission, 18 unit tests (foil.riecodes.com)
- Cutly: mobile video editor with offline silence cutting and burned-in captions on Media3 hardware codecs and on-device Whisper, no FFmpeg, 82 unit tests (cutly.riecodes.com)

BetterNaic: Civic Portal for Naic, Cavite | React · Vite · Cloudflare Workers · D1

Open Source

- Community portal listed in the BetterGov.ph LGU Directory, with hashed moderator keys, HMAC sessions, Turnstile, per-IP rate limits, and 0 axe-core accessibility violations (betternaic.vercel.app)

SmartStay: Resort Management System | Next.js 15 · Supabase · Flutter

Client

- Built for Josefina Resort & Hotel: admin and staff roles, booking conflict detection, walk-ins, events, maintenance, a reservation calendar, and revenue charts with Excel export, plus a Flutter guest app; validated with 70 system test scenarios (smartstay-eta.vercel.app)

Weave Manila Website | Astro · Tailwind CSS · GSAP

Client

- Rebuilt an abaca rug exporter's site into 83 pages with 827 optimized images and a JSON catalog of 78 rug designs (weavemanila.riecodes.com)

GrupoPCX Events System | Next.js 16 · Firebase · PWA

Client

- Member registration with one-time codes, QR check-in, announcements, rides, merch, and push notifications, with role permissions enforced in both the client and Firestore security rules

- CadetLink: ROTC Attendance PWA** | Next.js 16 · Firebase · Serwist *Client*
- Offline QR attendance for about 150 cadets per semester (IndexedDB queue with dedupe), 7 roles, and server-side generation of official forms (CSC Form 48 DTR, AER, ASR, ATR)
- i-CAN: Canteen Automation** | Flutter Web · Firestore *Client*
- Offline-capable canteen POS for a public high school with sell, stock, day close, and reports, exporting Excel in the school's monthly report layout (ican-papnhs.web.app)
- Cavite Camp Rentals** | Next.js 16 · Firebase · PayMongo *Client*
- Account-free booking with an availability calendar, PayMongo checkout confirmed by webhook, and calendar export to PNG and PDF for Facebook posts
- SplashSafe: Anti-Drowning System** | YOLOv11 · Python · RTSP · ESP32 *Capstone Project*
- Built a full-stack IoT system for real-time drowning and rule-violation detection, integrated with resort guest data management, with backend services and APIs for YOLOv11 inference over RTSP
- Quezon CITYBUS Counting System** | Python · YOLOv8 · ByteTrack · OpenCV · PHP · MySQL *Client*
- Built a real-time passenger-counting solution. Implemented dual-camera tracking, route sessions, directional counting, driver tools, schedules, and administrative reports
- AGAPAI: AI Powered Elderly Fall Detection System** | YOLOv11 · Python · RTSP *Client*
- Mentored students in building AGAPAI: A Vision-Based Monitoring and Alert System for Fall and Inactivity in Elderly Care Facility, guiding model training, detection logic, alerting flow, and system integration
- Other Client Systems** | PHP · Laravel · Flutter · Next.js · MySQL *Client*
- Caymart payroll (Next.js, Firebase), OCRIMS optical clinic records (Flutter, BLoC), PTC Career Link and BabyTalk maternal care (Flutter, Firebase), Alternative Learning System, EATS-DYCI canteen, EWN payroll, faculty evaluation, QR/barcode library, Dimple Star reservations, and CvSU-Naic and Maragondon building audits

OPEN SOURCE & COMMUNITY

- [rie-opensource-tools](#): single-file PowerShell utilities for Windows (File Explorer window merger, reversible ASUS ROG power saving), 22 GitHub stars
- [pacto](#): Python CLI and MCP server that archives idle project folders into verified zips
- [free247editor](#): open-source AI video-editing agent skill for Claude Code and Codex, with free Groq or local Whisper transcription
- BetterGov.ph LGU Directory: contributor and maintainer of the Naic, Cavite entry (2 merged PRs)
- Founder of Developer Confidence PH (confidence.rie.codes.com), a Facebook community for introverted Filipino developers, and admin of the Gecko app community (860+ members)

EDUCATION

Cavite State University – Naic Campus

Bachelor of Science in Information Technology

- Consecutive President Lister
- Summa Cum Laude

San Mateo Senior High School

Information Communication Technology

- High Honors

Bucana Malaki Naic, Cavite

Graduation Date: September 2026

Guitnang Bayan 1, San Mateo, Rizal

Graduation Date: September 2022