

RUEL RYAN A. ROSAL R.Ch.

Full-Stack Developer · React / Next.js / TypeScript / Supabase / PostgreSQL

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Full-stack developer shipping production web applications for clients in Europe and the US: React, Next.js, TypeScript, Supabase and PostgreSQL, built test-first with coverage gates in CI. I came to software from six years of ISO 17025 laboratories and five years running my own business, so I treat correctness as the product. Two live products of my own; licensed chemist.

/ TECHNICAL SKILLS

Frontend	React 19, Next.js 16, TypeScript, Tailwind CSS 4
Backend	Supabase, PostgreSQL, Row Level Security, Edge Functions (Deno), Node.js, REST
Testing	Vitest, Playwright, test-driven development, 100% coverage gates in CI
Tooling	Git / PR flow, CI, Vercel, Railway, Biome, ESLint, pnpm
AI & Automation	Claude Code, Cursor, Mistral API, Gemini API, n8n, Outscraper, Firecrawl
Domain	ISO 17025 quality systems, LIMS, method validation, statistical QC, audit discipline

/ EXPERIENCE

Developer · MelonMinds B.V. JUL 2026 – PRESENT · REMOTE, NETHERLANDS

- Rescued **WMS Scanner**, a photo-matching warehouse app that was slow, crashing and undocumented: mapped the architecture end to end, fixed image-matching performance and stability, and productionized deploys with a dev/prod split and PR review flow (React, Supabase, Gemini API, Railway).
- Took **AI Growth Compass**, a survey-analytics SaaS, from prototype to production-ready: security and quality audit (edge functions, database row-level security, frontend), invite and auth redesign, email deliverability (DKIM, DMARC, webhooks), backups and an EU data-residency plan. About **40** pull requests merged in four weeks; now an ongoing role.
- Currently co-building a Copilot-in-Excel and AI-agents workshop program for a 100-person Dutch client.

Founder · AssayProof (assayproof.com) 2026 – PRESENT

Chemistry SaaS by a chemist: method-validation tooling for small QC labs.

- Ten free bench calculators live (molarity, dilution, buffer prep, calibration curves, %RSD and more) on a pure, framework-free calculation library held to **100%** test coverage in CI; guided ICH Q2(R2) / USP 1225/1226 validation workflows in development.

Full-Stack Developer & Owner · E & J Appliances Furniture Store MAR 2021 – PRESENT · SOUTHERN LEYTE, PH

Run an installment-sales retail business end to end — and designed and built the ERP that runs it.

- Replaced the Google Sheets operation with an owner-built ERP: live amortization engine, payments with receipts and a full audit trail, GPS-pinned field collections, geofenced payroll, inventory and owner analytics (**19.1k** lines of production TypeScript; Next.js 16, Supabase, Vitest, Playwright).
- Cutover July 2026: **1,511** contracts, **1,127** customers and **5,901** payments imported and **reconciled to the centavo**; five staff roles enforced in Postgres row-level security.

Lead Research & Data Specialist · Just Good Business LLC JUN – JUL 2026 · REMOTE, US

- Built an AI-assisted lead-intelligence pipeline: Outscraper and Firecrawl scraping with Mistral-API scoring, structured extraction and personalization at **150–300** leads per week.

Chemistry & QA Career · PASAR Corporation → Cebu Agua Laboratory (Laboratory Head) NOV 2014 – MAR 2021 · PH

- Six years in analytical laboratories: three promotions in 28 months at the Philippines' copper smelter, then Laboratory Head of a water-testing lab. Method validation with statistical tools, ISO 17025 audits, LIMS, results certified under my own signature: the correctness discipline my software work is built on.

/ PROJECTS

- **E & J Business App** — eandj-chi.vercel.app (live, behind staff sign-in): full ERP for an installment-sales retail business — amortization engine, payments and audit trail, GPS field collections, geofenced payroll, analytics. 19.1k lines of production TypeScript; Next.js 16, Supabase, Vitest, Playwright.
- **AssayProof** — assayproof.com: chemistry SaaS with ten live bench calculators on a framework-free calculation library at 100% test coverage in CI.
- **Portfolio** — ruelryan.assayproof.com: scroll-driven site where the scroll runs a titration; custom scroll engine integration, scrub-encoded video, verified contrast and reduced-motion support.

/ EDUCATION & CREDENTIALS

Licensed Chemist — Professional Regulation Commission, Philippines

2014

Chemist Licensure Examination, September 2014

BS Chemistry, Cum Laude — Visayas State University

2008 – 2012

DOST-SEI scholar · DOST Award for Academic Excellence in Science · consistent college honors

/ CERTIFICATIONS

The Complete Full-Stack Web Development Bootcamp — Udemy

DEC 2025

62 hours

Google Sheets: The Comprehensive Masterclass — Udemy

NOV 2025

14.5 hours

/ EARLIER EXPERIENCE

- **Chemistry Laboratory Instructor**, Visayas State University (2013) — taught laboratory fundamentals, safety and instrumentation to chemistry students.
- **Chitosan Research Project**, Visayas State University (2011) — produced chitin from crab carapace and processed it into chitosan blends and films.
- **VA, Lead Generation & Outreach**, Indefinable Agency (Jan – Mar 2026) — contract lead-generation and outreach role.

References available on request.