Rafa Domínguez Alcolea

Full Stack Developer

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Full stack developer (TypeScript, React, Node.js, PostgreSQL), 2.5 years as lead developer at two energy consultancies. Built a 1,200+ client CRM solo; cut the core business process from 15–30 to ~1 min.

SKILLS

- **Languages:** TypeScript, JavaScript, SQL, Rust, Python, C, Bash.
- **Frontend:** React, Svelte, Tailwind, Vite, TanStack, shadcn/ui.
- **Backend:** Node.js, Express, Prisma, PostgreSQL, socket.io, Axum (Rust), LLM integration (Claude API).
- **Testing:** Vitest, Jest, Playwright.
- **DevOps & IT:** Docker, Linux, NixOS, Ansible, Nginx, Grafana, Git, networking.
- **Spoken:** Spanish (native), English (C1).

EXPERIENCE

Lead Software Developer — Energía Simple — Jan 2026 – Present

Murcia, Spain · Hybrid

- Built from scratch, as sole developer, the CRM the whole company runs on: clients, bill comparisons, commissions, settlements, documents and follow-up for 1,200+ clients.
- Automated bill data extraction with the Claude API and local Tesseract OCR; built supplier price imports from Excel/PDF using LLM field mapping with human review.
- Built role- and attribute-based access control (11 roles, 28 resources), a commission engine, a client offer portal, PDF/email generation and PII-masked structured logs.
- Wrote unit, integration and E2E tests (Vitest, Jest, Playwright; ~1,300 test files). Mentored 5 interns.

Full Stack Developer & IT Lead — Energétikos — Mar 2024 – Sep 2025

Murcia, Spain · Joined as intern, hired Jun 2024

- Automated the company's core process, client energy price comparisons (~80% of all work, 20–30 a day), from 15–30 min of manual Excel work to ~1 min; they went from barely profitable to profitable.
- Led the build of K360, the core quoting tool of an 11-person consultancy (React, Node.js, PostgreSQL): wrote ~80% of the code, reviewed all of it, worked with every department.
- Led a team of up to 4 (2 developers, 2 interns) and trained ~7 interns; owned procedures, documentation and security; set automation priorities with management.
- Ran company IT: servers, networking, domains, hardware, Ansible, Grafana, support tickets.

Web Developer — Freelance — Jul 2023 – Dec 2025

Remote · Occasional projects

- Built and deployed small websites for local clients, from quote to launch.

Intern, Microcomputer & Network Technician — PcComponentes — Mar 2021 – Jul 2021

Murcia, Spain

- Assembled, repaired and tested PCs from entry-level to high-end; after-sales repairs.

PROJECTS

- **Jarcade** (Rust, Svelte): self-hosted game library and web emulator with synced saves; Axum API, auth, chat, CI with E2E tests, Docker. Plus **Cartado**, a fork of the Allium launcher for an ARM handheld console (128 MB RAM): cross-compiled Rust, redesigned SDL2 UI, new features, Jarcade sync.
- **Mentiroso** and **Misiones**: mobile party games with online modes (React, Fastify, WebSockets).
- **Homelab** (since 2019): server shared with friends, up to 20 concurrent players on game servers; 8 Docker containers behind Nginx Proxy Manager, Uptime Kuma monitoring.
- **Luce** (C/C++): ESP32 smartwatch firmware written from scratch.

EDUCATION

- **Higher Technician in Web Application Development** — IES José Planes — 2022 – 2024
  Final project, graded with honours: BasketTCG, a basketball card game (React, PHP, PostgreSQL) built by a team of three; co-built the front and back end and owned the infrastructure.
- **Technician in Microcomputer Systems and Networks** — IES Ingeniero de la Cierva — 2020 – 2022