Rodrigo Fernández Aragonés

Senior Full Stack Software Engineer
Quimperlé, France | +33 6 58 08 26 52 | rfernandezaragones@gmail.com
LinkedIn | roderik.org

PROFESSIONAL SUMMARY

Philosophy of language shaped how I think about systems. I discovered that programming languages operate by the same principles — they build meaning through structure. For the last 11+ years, I've applied that rigor to designing, building, and operating production software, from greenfield real-time access control systems to full-stack reporting platforms. Today I combine strong TypeScript/Node.js/React engineering with daily agentic coding and AI-assisted development workflows without compromising software quality.

SKILLS

Languages & Core: TypeScript, JavaScript, Node.js, SQL, HTML5, CSS, Bash, Git
Frontend: React, Angular, Next.js (SSR/SSG/ISR), MobX, Microfrontends, Tailwind CSS, Bootstrap
Backend & Data: NestJS, Express, REST APIs, PostgreSQL (JSONB, query optimization), Swagger/OpenAPI, Jsonata
DevOps & Operations: Docker, Nginx, GitLab CI/CD, ArgoCD, Production Monitoring, Rollbacks
Engineering Practices & AI: Agentic Coding & AI-Assisted Development (custom AI workflows/skills), Clean Architecture, Microservices, E2E Testing Automation (Puppeteer), Code Reviews, Pair Programming, Technical Documentation & RFCs, Mentoring

PROFESSIONAL EXPERIENCE

CGI – Larmor-Plage, France

Full Stack JavaScript Developer | *2022 – Present*

- Evolved an E2E testing tool from monolith to multi-repo architecture; designed "Puppeteer injections" for custom test actions (React, Express, Puppeteer).
- Built a 3-step wizard for a PDF report generation platform (store closure, sales, stock, cashier reports): template design with mock data, API configuration (parsing Swagger into dynamic forms + Jsonata transformations), and schema validation between templates and API responses.
- Primary triage engineer for front/back production debugging and root cause analysis; shipped immediate frontend fixes and coordinated cross-team backend resolution.
- Operated deployments across dev, staging, production, and multiple client environments using GitLab CI/CD and ArgoCD; managed rollbacks and production monitoring.
- Maintained and extended point-of-sale frontend across legacy and TypeScript/microfrontend versions; ensured E2E test coverage via Puppeteer.
- Leveraged daily agentic coding tools and custom AI workflows while upholding code quality through code reviews, pair programming, technical documentation/RFCs, demos, and coaching teammates on AI-assisted development.

IOT.bzh – Lorient, France

Full Stack Developer | *2019 – 2022*

- Architected, built, and operated a greenfield home automation and access control server (NestJS, Node.js, Angular, TypeScript, PostgreSQL) still running in production.
- Created a standalone, reusable JS library for the Civintec access control protocol (door readers, badge authentication, real-time health monitoring).
- Managed 10+ concurrent door readers with real-time status: automated health checks, open-door detection, and badge validation against PostgreSQL.

GoSchool – Mendoza, Argentina

Full Stack Developer | *2015 – 2019*

- Scaled a school management platform to 50 schools and 10,000 active users across multiple roles (students, teachers, directors, secretaries, preceptors, parents).
- Rewrote critical SQL database queries and optimized page load performance and reliability.
- Redesigned user interface based on teacher and parent feedback; improved navigation across communication, grades, and attendance modules and trained school staff.

EDUCATION

Master's Equivalent (BAC+5) in Philosophy — Universidad Nacional de Cuyo, Argentina (2002 – 2014)
Technician Degree in Programming (BAC+2) — Universidad Tecnológica Nacional, Argentina (2015 – 2017)

LANGUAGES

Spanish (Native) | French (B2 DELF) | English (B2 First)