

ENZO MARIANO QUIROGA

Full Stack Engineer

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Full Stack Engineer with 4+ years of experience building high-availability web systems in critical healthcare environments. Specialized in the TypeScript ecosystem (NestJS, Angular, React), clean architecture, and performance optimization for high-traffic platforms. Actively involved in architectural decisions and end-to-end system design.

EXPERIENCE

Full Stack Web Developer

Mar 2022 – Present

Hospital de Clínicas José de San Martín · Buenos Aires, Argentina

- Designed and developed a patient platform serving **120,000+ users**, optimized to sustain peaks of **8,000 concurrent requests** via Redis caching, throttling, and connection pooling.
- Built the electronic prescription backend (NestJS/PostgreSQL) processing **400,000+ successful prescriptions**, and engineered the Angular frontend to dynamically render recursive form structures (80+ inputs, nested parent-child trees) using ngTemplateOutlet for runtime component resolution, eliminating paper workflows and manual errors.
- Led migration of legacy Visual Basic systems to clean, modular web architectures (Clean Architecture, SOLID), improving maintainability across multiple system areas.
- Developed full-stack HR & Attendance Control module (NestJS + React) for schedule, leave, and time-tracking management of hospital staff.
- Built the Pharmaceutical Management module for inpatient wards: digitized medication requests with **SNOMED CT** nomenclature integration, automated order routing to the pharmacy department for inventory control, and generated dispensing reports — replacing a fully manual process and reducing medication delivery errors.
- Collaborated in designing a full Emergency Circuit system: patients flow through triage, are ingested into the system, called via a digital turn display, and attended by any available doctor with full clinical context on screen.
- Engineered the patient state persistence layer (NestJS/PostgreSQL) powering the Emergency Circuit: real-time tracking of clinical records, statuses and care history across shifts, enabling any doctor to resume an ongoing case with one click — resulting in a **12% increase** in daily patient capacity.
- Implemented RxJS debouncing/caching in Angular (NgRx) to reduce API overhead and improve mobile-first responsiveness.
- Provisioned and maintained AWS infrastructure (EC2, S3) with Docker containers and ongoing monitoring (Prometheus).

IT Technician

Sep 2021 – Feb 2022

Hospital de Clínicas José de San Martín · Buenos Aires, Argentina

- Automated OS and software deployment via Bash/PowerShell scripts (Zero-Touch Deployment), reducing manual configuration time by **80%** across **2,000+ workstations**.
- Managed physical/virtual servers, domain configuration, networking, and initial Docker rollout for internal services.

TECHNICAL SKILLS

Core Stack:	TypeScript, JavaScript, Node.js (NestJS, Express, Adonis), Angular (NgRx), React (Redux, Zustand), SQL (PostgreSQL, MSSQL, MySQL)
Engineering:	Clean Architecture, SOLID, Design Patterns, REST APIs, Redis Caching, Throttling, Unit Testing (Jest)
Infrastructure:	AWS (EC2, S3), Docker, Prometheus, Git, Linux, Vercel, CI/CD
Other:	NoSQL (MongoDB), HTML5, CSS3, Tailwind CSS, Sass, Scrum/Agile

EDUCATION & LANGUAGES

Computer Science · Universidad Nacional de General Sarmiento · 3 of 5 years completed (2019–2022)

Languages: Spanish (Native) · English (B2 – Upper Intermediate)