Nicolás Raffagnini

Full Stack Developer · Backend & DevOps

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PROFILE

Backend-focused Full Stack Developer with a higher technical degree in Software Development. Technical lead of a ~158,000-line ERP running in production and author of the multi-agent system that automates its sales cycle. I own the whole product: requirements, data, backend, frontend and infrastructure.

PROFESSIONAL EXPERIENCE

NBG — Automated sales multi-agent system (project)

2025 – Present

- Automated the retail sales cycle with coordinated agents: **+30% in sales** (3 months of data).
- Orchestrated the agents in TypeScript on the Gemini API, with Redis for state and queues and MySQL for persistence.
- Sped up development using Claude as an assistant (prompts, refactors and technical documentation).

NBG — Full Stack Developer (Backend · Frontend · DevOps)

2025 – Present

WWSystem — ERP for a nutritional supplements manufacturer: purchasing, production, stock, sales, collections, accounting.

- Technical lead on a 3-developer team (**~42% of the commits**): first release in production in under 6 months; today ~158,000 lines, 33 business modules, 58 tables and ~287 REST endpoints.
- Designed the **RBAC access control** —declarative permission catalog, 7 roles, data scopes and cache with invalidation— replacing hardcoded authorization, with no code bypass even for the admin.
- Built the purchasing cycle (order → invoice → goods receipt → reconciliation) with an append-only ledger, plus the accounting module: chart of accounts, expenses, VAT ledger and cheque portfolio.
- Express + Sequelize backend on MySQL (221 versioned migrations, row-locking transactions) with **~1,059 tests** in Mocha/Chai/Sinon; React 18 + Vite frontend with Zustand, Tailwind and Socket.IO.
- Migrated the infrastructure from Google Cloud to an in-house server set up from scratch (OS, Nginx, Docker, Node.js, MySQL): **USD 150/month saved**, paying back the one-off USD 650 in under 5 months.
- Automated CI/CD with GitHub Actions and Docker across two isolated environments behind an NGINX gateway: deployments from ~10 min to 2:30 (−75%), with verified off-site backups.

WOTECH — Technical Lead and Full Stack Developer

2024 – 2025

- Led a team of 3 developers for 12 months under SCRUM (Trello), across ~24 two-week sprints.
- Delivered 8 modules of an end-to-end management system for a carpentry business: raw materials, suppliers, blueprints and costing.
- Engaged the client with per-sprint demos and provided 6 months of maintenance and server administration. Stack: Node.js, Express, MySQL, Sequelize, React, Tailwind CSS.

No Country — Backend Developer · Team Lead (internship · certificate)

2023 – 2024

- Coordinated the backend team (3 devs) within a 9-person team —frontend, QA, design and PM— for 10 months.
- Developed the scoring and matching algorithm, the core feature of the MVP, and implemented the services with Node.js, Express, MongoDB, Mongoose and Socket.io.

EDUCATION & CERTIFICATIONS

Higher Technical Degree in Software Development
J. J. de Urquiza Institute · Rosario, Argentina · 2023 – 2025

Node.js Backend · React Frontend Development
Coderhouse · Remote · 2022

Advanced PC Technical Support — NASA Computación · 2015-2018

Generative AI Software Engineering Specialization
Coursera · 2025 – 2026

Agentic AI Systems Development
Microsoft · 2025 – 2026

TECHNICAL SKILLS

Backend	Node.js · TypeScript · Express · JavaScript · Python · REST APIs · JWT/BCrypt · RBAC · Socket.IO
Databases	MySQL/MariaDB · PostgreSQL · MongoDB · Redis · Sequelize (migrations) · Mongoose · ER modeling
Frontend	React 18 · Vite · Zustand · Context API & Hooks · Tailwind CSS · Material-UI · HTML5 · CSS3
DevOps	Linux · Nginx · Docker · Docker Compose · GitHub Actions (CI/CD) · Google Cloud Run · Git · Vercel
Applied AI	Multi-agent systems · Gemini API · Embeddings & cosine similarity · Claude Code

Soft skills SCRUM · Team leadership · Client communication · Fast learner