

Nicolás Amorosi

Full-Stack Engineer — TypeScript · Next.js · NestJS · PostgreSQL

Libertador San Martín, Argentina · Remote (UTC-3, overlaps EU afternoons and US mornings)

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SUMMARY

Full-stack engineer who builds business systems end to end: data modeling, legacy data migration, secure auth and permissions, APIs, UI, tests and production deploys. Lead developer of the internal platforms of the Italian Adventist Church Union (UICCA / HopeMedia Italia) since 2025, including an academic records system built almost single-handedly (55 data models, ~1,200 automated tests). Works in English, Spanish and Italian.

SKILLS

- **Languages:** TypeScript, JavaScript, SQL, Ruby, Python, Bash
- **Frontend:** Next.js (App Router, RSC), React 19, Tailwind CSS, shadcn/ui, i18n (next-intl), accessibility (WCAG AA)
- **Backend:** NestJS, Node.js, Express, Ruby on Rails, REST APIs, Prisma, TypeORM, Drizzle
- **Data:** PostgreSQL, MySQL, MongoDB, SQLite; schema design, migrations, legacy data migration
- **Security:** JWT + refresh rotation + CSRF, Microsoft Entra ID SSO (MSAL), NextAuth, permission-based RBAC with scopes, audit logging
- **Cloud & DevOps:** Docker / Compose, AWS (EC2, S3), GitHub Actions, Vercel, Google Cloud Build, Linux
- **Testing:** Jest, Vitest, Playwright (e2e)
- **Integrations:** Microsoft Graph (mail, Planner), Stripe, Excel/PDF generation
- **Ways of working:** monorepos (Turborepo + pnpm), strict TypeScript, AI-assisted engineering (Claude Code, MCP)

EXPERIENCE

Villa Aurora — Istituto Avventista di Cultura Biblica (Florence, Italy)

Freelance Full-Stack Engineer · Remote · Aug 2026 – Present

- Lead developer of *Libretto*, the institute's academic records system (courses, curricula, enrollments, grades, credits, teacher and student portals); author of ~96% of the codebase.
- Built a NestJS + Prisma + MySQL backend (55 data models, 46 modules) and a Next.js 16 / React 19 frontend in a Turborepo monorepo with shared TypeScript contracts; ~1,200 automated tests (Jest, Playwright).
- Designed the security model: in-memory JWT with HttpOnly refresh cookie and CSRF double-submit, permission-based RBAC with own / assigned / all scopes, admin impersonation and an audit log with sensitive-field redaction.
- Migrated a ~20-year-old, 46-table legacy database with mixed text encodings (latin1, cp1252, UTF-16) through an incremental sync engine — zero corrupted characters, identities resolved for 357 of 364 people.
- Delivered bulk Excel import, PDF generation, S3 storage with presigned URLs and file-type validation, and scheduled email reminders via Microsoft Graph.

HopeMedia Italia — Italian Adventist Church Union (Rome, Italy)

IT Infrastructure & Lead Developer · Jan 2025 – Aug 2026

- Led a team of 3 developers (plus 2 rotating) building the Union's HR and administration platform: monthly work reports for pastors and staff, absences, expenses, travel and treasury, with multi-level approval chains, Excel/PDF exports and an Italian / Spanish / English interface.
- Integrated Microsoft Entra ID single sign-on and Microsoft Graph; replaced a first-generation version (NestJS + Next.js, CI/CD to AWS EC2 with GitHub Actions) with the current platform.
- Built the radio station's absence and on-air substitution system (Next.js, PostgreSQL, editable RBAC) plus a video-playlist player for Raspberry Pi TV screens with an ffmpeg re-encoding pipeline to S3.

- Built an office wall dashboard of Microsoft Planner tasks (Next.js Server Components, Microsoft Graph, ISR).
- Ran production infrastructure: Dockerized deploys on AWS EC2 and automated, encrypted database backups to S3 with 60-day retention.

Universidad Adventista del Plata (Argentina)

Software Developer · Part-time · Sep 2026 – Present

- Technical owner of VID, the university's research-protocol submission and evaluation platform (Next.js, Prisma, MongoDB, Azure AD): audited the inherited codebase, traced 20 user-reported issues to their root causes and produced a security review.
- Leading the rewrite of the accounts-payable system from Progress 4GL / OpenEdge (~53k lines) to a modern web stack on PostgreSQL; built Python tools to reverse-engineer the legacy schema and source history.

Junior Developer · Mar 2023 – Dec 2024

- Upgraded 3 production systems to the latest version of Ruby on Rails.
- Built an internal tool to keep the university's database organized and running smoothly.
- Started 2 new systems: an expense-reimbursement assistant for accounting and an early-warning system that flags students at risk of dropping out.

Freelance Full-Stack Developer

Remote · Oct 2023 – Present

- Management system for a dental laboratory (clients, monthly billing, payments, credit balance, WhatsApp-ready PDF summaries); led its 2026 migration from Express + React to Next.js on Vercel.
- Real-estate visit-scheduling SaaS: embeddable booking widget, WordPress plugin with listing sync, Stripe subscriptions; NestJS + MySQL backend deployed on Google Cloud.

SELECTED PROJECTS

- **WorshipApp** — Desktop projection app for churches: Electron, React, strict TypeScript, SQLite with full-text Bible search, typed IPC, PowerPoint slides rendered through headless LibreOffice; Windows installer built from macOS. Sole author.

EDUCATION

Universidad Adventista del Plata — Systems Engineer — Ingeniero en Sistemas (2024) · Systems Analyst — Analista en Sistemas (2022)

LANGUAGES

Spanish (native) · English (full professional) · Italian (professional working) · Portuguese (limited working)