

TOMÁS ZARRIELLO

Software Engineer | Full Stack Developer & Frontend Architecture

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PROFILE

Software Engineer (UNMDP) focused on building scalable, high-performance web and mobile applications. Works across the full stack (React, Next.js, Node.js, TypeScript), with a strong emphasis on frontend architecture, state management and system reliability.Execution-driven and pragmatic: experienced in both building systems from scratch and improving existing codebases, resolving issues, optimizing performance and delivering production-ready features on time.
Leverages AI tooling to accelerate development cycles while maintaining strict engineering standards and code quality.

TECH STACK

Core:
React, Next.js, TypeScript, Node.js

Frontend:
HTML5, CSS3, Tailwind CSS, Framer Motion, WebGL (Three.js)

Backend & Data:
REST APIs, PostgreSQL, Firebase

Mobile & Workflow:
React Native, Expo, Git, Vercel, LLM APIs integration

EDUCATION

Computer Engineering
UNMDP | *In progress*
Architecture
UNMDP | *3 years completed - strong foundation in structural design*

COURSES

- **Web Developer** - Coderhouse
- **ReactJs** - TalentoTech
- **JavaScript** - Coderhouse
- **React.js** - Coderhouse
- **Backend** - Coderhouse
- **Photoshop** - Esoarch
- **Illustrator** - Esoarch

LANGUAGES

Spanish - Native
English - B2 / Technical

ENGINEERING PROJECTS

Project100 (AI Mobile App) | React Native, Expo, Firebase, LLMs *2025 - In progress*
- Developed a cross-platform mobile application addressing complex state logic and real-time data synchronization.
- Engineered structured prompt chains via REST APIs, enforcing predictable, UI-ready JSON responses from LLMs to avoid state mutation errors.
- Integrated Google OAuth and Firebase Cloud Messaging (FCM) for push notifications, ensuring a secure, production-ready user experience.

SaaS ERP Platform | Next.js, TypeScript, Node.js *2026*
- Architected a modular business management system, prioritizing strict typing and clean state management to ensure future scalability.
- Designed centralized data flows and role-based access controls, proving capacity to handle complex backend-to-frontend integrations.

EXPERIENCE

Frontend Engineer | BCA Balcarce *2025*
- Engineered a scalable institutional platform from the ground up using Next.js (App Router) and SSR, prioritizing long-term maintainability.
- Built a strict, reusable Tailwind component library, eliminating design debt and ensuring visual consistency across the application.
- Optimized Core Web Vitals and SEO, achieving robust performance in production environments.

Frontend Developer | INTECMAR *2025*
- Refactored and maintained legacy UI components, demonstrating adaptability and proactive learning within an existing digital ecosystem.
- Resolved critical responsive layout and hierarchy issues, prioritizing accessibility and clean code structure.
- Collaborated on migrating the visual identity without breaking core functionalities or existing data flows.

Full Stack Developer | NoCountry (Agile Team Simulations) *2023 - 2025*
- Operated within multidisciplinary remote teams to deliver iterative releases across 5 distinct products (E-commerce, LMS, Logistics).
- Adapted quickly to diverse codebases, establishing scalable design systems that reduced onboarding friction for the rest of the team.
- Took ownership of issue resolution, debugging, and continuous feature improvement in fast-paced environments.