

Pedro Terraf

Full Stack Engineer — Web & Mobile (React / React Native · NestJS · AWS)

Email: pedroterraf@gmail.com · Phone: +54 9 3564 691624 · Córdoba, Argentina (UTC-3) · Open to remote & relocation · github.com/pedroterraf · linkedin.com/in/pedroterraf · [portfolio](#)

Full Stack Engineer with 3+ years building and shipping **production web and mobile products** across ticketing, real-estate, insurance, healthtech and logistics marketplaces. Strong on the frontend (**React, Next.js, React Native/Expo**) with deep backend and cloud experience (**NestJS, PostgreSQL/Prisma, Redis, AWS**). I own features end-to-end—from data model and APIs to UI and App Store / Google Play releases—and care about scalability, reliability and clean, maintainable code.

FEATURED PROJECT — UNIVERSO (LIVE EVENT TICKETING PLATFORM)

Universo — End-to-end ticketing & access-control platform

A full commercial, **multi-tenant ticketing platform** (not a simple ticket seller) that powers both the company's own shows and **third-party event organizers** (white-label): a **6-app ecosystem**— a public **web storefront**, an **admin backoffice**, a customer **mobile app** (iOS/Android), a dedicated **Android access-control (controller) app**, a **desktop point-of-sale** and a **NestJS API**— handling high-demand on-sales, payments, invoicing and door access control. I work as one of two core engineers owning the codebase end-to-end and mentoring a junior developer.

Live: [universotickets.online](#) · iOS — App Store · Android — Google Play

~800 req/s
PEAK TRAFFIC AT ON-SALE LAUNCH

16,000+
TICKETS SOLD IN ONE EVENT

~1 hour
WHERE MOST SALES HAPPENED

6 apps
WEB · BACKOFFICE · MOBILE · CONTROLLER · POS · API

- Multi-tenant SaaS:** a single platform that serves multiple isolated event organizers / providers (white-label), each with its own events, pricing, branding and payment configuration.
- High-traffic on-sale architecture:** designed a Redis-backed **virtual waiting room** (dedicated microservice) with capacity-based direct admission, JWT access passes, distributed locks, idempotent token exchange and a fail-closed circuit breaker to keep the sale stable under ~800 req/s spikes.
- Asynchronous processing:** **BullMQ** queues for ticket generation, stock adjustments and price updates so purchases never block, with retries, backoff and job monitoring.
- Payments & billing:** multi-provider payment orchestration (adapter/hexagonal pattern) across multiple methods (credit / debit / prepaid / account balance)—payment intents, transactions and refunds—plus electronic invoicing (ARCA/AFIP) and rate limiting / brute-force protection.
- Offline access control:** dedicated Android controller app that **validates and "burns" tickets fully offline** and reconciles registries with the server once connectivity returns—critical for venues with poor network.
- Mobile app:** React Native / Expo app with **anti-fraud rotating TOTP QR codes**, screen-capture protection, secure storage, ticket transfer, push notifications and OTA updates.
- Desktop POS:** Electron box-office app with **native Payway/VPI card-terminal integration** (serial port + FFI to a native DLL via a satellite process), thermal/PDF printing and auto-updates.
- Backoffice & operations:** event/venue setup, **tiered pre-sales with per-sector dynamic pricing**, stock allocation, sell points, and real-time sales & **automated cash-reconciliation** reports with CSV export.
- Delivery:** multi-environment CI/CD (dev/QA/UAT/prod) on **AWS ECS** with Docker and GitHub Actions.

NestJS

PostgreSQL

Prisma

Redis

BullMQ

React Native

Expo

Next.js

Electron

AWS ECS

Docker

Multi-tenant

CI/CD

Core engineer · In production

PROFESSIONAL EXPERIENCE

Odaclick — Full Stack Engineer

Software development studio. Building web & mobile products for external clients.

- Deliver **mobile apps (iOS & Android)**, web backoffices, desktop apps, APIs and data scrapers end-to-end.
- Build reusable component libraries, dashboards and complex interactive forms; integrate payment gateways (Mercado Pago, Payway).
- Implement **biometric authentication** and online/offline device controllers backed by a local database.
- Own releases to the **App Store** and **Google Play**, plus OTA updates.

Universo — See featured project above (multi-tenant live-event ticketing, 6-app ecosystem, high-traffic on-sales).

Livestock Lift — Cattle-transport logistics marketplace: two React Native apps (hauler + cattleman), web app and API in a single cross-platform **monorepo** (Turborepo, Tamagui, Solito). Load posting, offers/counter-offers, real-time GPS tracking, chat, push notifications, document verification and full trip lifecycle. Stack: NestJS, Prisma, AWS Cognito, S3/SES, Stream Chat, Orval, SST (IaC).

Simplestate — Real-estate investment mobile app (Mercado Pago integration, investment management). **MBA** — University e-learning app & website.

Ubuntu — judicial-sector web app with Python data scraping.

Jul 2024 – Present · Full-time

Fixup / SeguroMovil — Frontend Developer (Freelance)

Insurtech platform · [seguromovil.com.ar](#)

- Built reusable views and components integrated with the backoffice, with real-time shipping state management.

Jan 2024 – Oct 2025

- Integrated Mercado Pago, product/branch selection, and interactive claim forms (theft, damage, claim withdrawal).
- Integrated a dynamic, backend-driven FAQ system.

Edison — Full Stack Developer (Internship)

Jul 2023 – Aug 2023

Edtech startup selling online courses.

- Built a course marketplace with backend automation, database, and ARS/USD payment gateways; reusable views and interactive forms.

Munia — Frontend Developer (Internship)

Aug 2023 – Sep 2023

Healthtech startup (mental & emotional health).

- Built views, reusable components, user auth (login/register), interactive forms and dashboards with stats, integrated with the backend.

Indian Co — Full Stack Developer (Freelance)

Aug 2023 – Sep 2023

E-commerce · Buenos Aires, Argentina (remote).

- Designed the database and built a marketplace with auth, shopping cart, payment gateway, dynamic forms and dashboards.

TECHNICAL SKILLS

Frontend	React, Next.js, TypeScript, React Query, Redux, Tailwind CSS, MUI, Radix UI, React Hook Form, Yup, Framer Motion
Mobile	React Native, Expo (EAS & OTA Updates), Tamagui, Solito, SQLite, Firebase (Crashlytics / Push), biometric & secure storage
Backend	NestJS, Node.js, Express, REST, GraphQL/Apollo, Prisma, Sequelize, BullMQ, JWT/Passport, SOAP integrations
Data & Infra	PostgreSQL, MongoDB, MySQL, Redis, AWS (ECS, S3, SES, Cognito, SST), Docker, GitHub Actions CI/CD
Integrations	Mercado Pago, Payway/VPI terminals, Stream Chat, Google Maps/Places, Meta Conversions API, ARCA/AFIP e-invoicing
Desktop / Other	Electron, Orval (typed API codegen), Python (scraping), Turborepo/monorepos, Git, Jest, testing

EDUCATION & LANGUAGES

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| <ul style="list-style-type: none">• Systems Engineering — university coursework (not completed)• Full Stack Web Developer — 800-hour bootcamp (2023)• Docker & NestJS — Udemy | <ul style="list-style-type: none">• Finance & investing — 6 years managing a personal portfolio• Spanish — native• English — B1, studying at Cambridge |
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