Nelson Aranda

Technical Lead · Mobile & Frontend Engineer · React Native · React · Flutter · TypeScript

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SUMMARY

Technical Lead and Mobile Engineer with 5+ years building mobile and web products, 4+ of them at itti (Paraguay) in digital banking, mobility and financial services. Builds apps with React Native, Expo and Flutter, and web apps with React and Next.js in TypeScript. Has taken apps from zero to production and led teams of 3 to 6+ developers, with a focus on mobile architecture, CI/CD, code quality, design systems and AI-assisted development.

EXPERIENCE

Technical Lead Frontend — itti

conto / ubox · Jul 2026 – Present · Asunción, Paraguay

Flutter · Dart · Riverpod · GoRouter · Clean Architecture · Google ML Kit · VisionKit · Amplitude

- Lead two micro-app squads within the ueno bank app (3 developers each): mentoring, code review, TDD practices and release management, coordinating with backend, QA and management. Set up rules and guides for Cursor, Claude and GitHub Copilot in both squads.

conto — app for Paraguayan taxpayers to upload receipts, review tax assessments and file tax returns. Launched as a standalone app (5,000+ downloads on Google Play), later integrated into ueno bank. Contributed from April 2026, alongside muv.

- Took the app from zero to production, led its releases and defined the project's folder structure on top of Clean Architecture.
- Built the receipt upload flow (camera, gallery, cropping and batch upload of up to 20 images) and a native Flutter plugin that unifies on-device document scanning under one Dart API, using Google ML Kit Document Scanner (Android) and VisionKit (iOS).
- Delivered receipt history with OCR, tax assessments, tax returns with PDF download and account linking with Marangatú (Paraguay's tax authority system), with funnels instrumented in Amplitude.
- Applied spec-driven development: wrote specs and implementation plans used as context for AI agents to implement each feature.

ubox — international courier micro-app within ueno bank: free US mailbox, shipment tracking and pickup at partner locations. Mentoring the squad and managing releases.

Technical Lead Frontend — itti

muv · Jan 2024 – Jul 2026 · Asunción, Paraguay

React Native · Expo · TypeScript · Redux Toolkit · Zustand · TanStack Query · Next.js · Mapbox

Paraguayan ride-hailing and delivery platform with 450,000+ passengers and 10,000+ drivers. Worked on the driver and passenger apps, the web app and the SDK monorepo, including a typed API client published with semantic-release.

- Led 6+ developers in the initial unified team, then the driver (4) and passenger (5) mobile teams: code review, releases, onboarding and mentoring, using Scrum and Jira. Trained my replacement before moving on.
- Co-led the muv design system with Product Design (React Native Paper on mobile, shadcn/ui on web), adopted by 3 teams, and created its Storybook for the new passenger app.
- Migrated releases from Codemagic and CodePush to Expo EAS Build/Update with GitHub Actions (dev, QA, staging and production, with automatic App Store and Google Play submission) and implemented OTA updates with progressive rollout tracked in New Relic.
- Led upgrades to Expo SDK 52, React Native 0.77 and Android target SDK 35, and standardized repositories with commitlint, husky, CODEOWNERS and SonarCloud quality gates that blocked merges on coverage or quality.
- Set up the foundations of E2E automation with Appium, WebdriverIO and LambdaTest and wrote some of the tests; the team used Jest and React Testing Library for unit and component tests.
- Improved app startup time, data usage and FPS, measured with Android Studio Profiler, and monitored stability with Sentry, Crashlytics and New Relic.
- Built the new passenger app from scratch with Expo Router, including the full ride flow on Mapbox: draggable stops, fare quotes, driver matching, real-time trip tracking and cancellation.
- Set up the foundations of the ride-sharing web app (Compartir Viaje) in Next.js (pnpm monorepo, shadcn/ui, WebSockets with STOMP and Socket.IO, i18n, Docker) and migrated the Back Office web app from Create React App to Vite, supporting that team, which had no lead engineer.
- Restructured the driver app's HTTP layer into domain modules with token refresh, migrated to TanStack Query and MMKV, rewrote geolocation tracking with a custom native module and designed feature flags on Amplitude Experiment.
- Versioned AI context in the repositories (Cursor rules shared across teams, Copilot instructions, AGENTS.md) and connected the design system to AI with Figma Code Connect and the Figma MCP.

Digital Software Senior Engineer / Mobile Developer — itti

ueno bank, wepa and web projects · Apr 2022 – Dec 2023 · Asunción, Paraguay

Flutter · Dart · BLoC/Cubit · Clean Architecture · Dio · Firebase · React

Joined as Mobile Developer; promoted to Digital Software Senior Engineer in August 2023.

- At ueno bank (digital bank with about 2.9 million users), built the authentication module with Clean Architecture and BLoC (public-key encrypted passwords, national ID validation), the OAuth session layer and biometric login with Face ID and fingerprint.
- Built the app control layer (forced minimum version, remote maintenance mode, jailbreak/root detection) and delivered the pre-approved loan flow end to end, through disbursement.
- Led the in-app rebrand from ueno to ueno bank and wrote unit, widget and integration tests with bloc_test and mockito.
- At wepa (Flutter app published on the App Store and Google Play), built onboarding and registration, tutorials and wepa points, a Google Maps view of wepa points, Western Union agents and ATMs.
- Built proofs of concept to port native SDKs to Flutter via method channels (Swift, Objective-C, Kotlin and Java) and supported React web projects: the ueno seguros site and ueno empresas.

Full Stack Developer — Solumed S.A.

Jul 2021 – Mar 2022 · Paraguay

Ionic · AngularJS · JavaScript · PHP · MySQL · Firebase

Health platform connecting patients and doctors for home care.

- Built screens and features and fixed bugs in the legacy Ionic/AngularJS patient and doctor apps.
- Built the company website with JavaScript, HTML and CSS, and fixed bugs in the PHP/MySQL backend.

SKILLS

- **Languages:** TypeScript, JavaScript, Dart, Java; Swift, Kotlin and Objective-C for native integrations
- **Mobile:** React Native, Expo (Router, EAS), Flutter, React Native Paper, native modules and method channels
- **Web:** React, Next.js, Vite, shadcn/ui, next-intl
- **State and data:** Redux Toolkit, Zustand, TanStack Query (React Query), Riverpod, BLoC/Cubit, MMKV, react-hook-form
- **Architecture:** Clean Architecture, micro-apps, monorepos (pnpm), design systems, feature flags, SOLID
- **Quality and testing:** TDD, Jest, React Testing Library, Appium, WebdriverIO, LambdaTest, Flutter Test, bloc_test, SonarCloud, Storybook
- **CI/CD:** Expo EAS, GitHub Actions, Codemagic, Firebase App Distribution, semantic-release, OTA updates, Docker
- **Observability and analytics:** Sentry, Crashlytics, New Relic, Amplitude, Firebase Analytics, Braze
- **Integrations:** Mapbox, Google Maps, WebSockets (Socket.IO, STOMP), Google ML Kit, VisionKit, biometrics, OAuth, deep links
- **Applied AI:** Cursor, Claude, GitHub Copilot, Figma MCP, agent skills, multi-agent workflows, spec-driven development
- **Ways of working:** Scrum, Jira, Git, code review, mentoring
- **Backend (basic):** REST APIs, PHP, MySQL, Firebase

EDUCATION

Bachelor's in Systems Analysis (Licenciatura en Análisis de Sistemas) — Universidad Católica Nuestra Señora de la Asunción (thesis pending)

COURSES

- React: De cero a experto (Hooks y MERN) — Udemy, 2024
- Zustand: Gestor de estado para React — DevTalles, 2024
- React Query: Un poderoso gestor de estado asíncrono — DevTalles, 2022
- Flutter Móvil: Recursos Nativos, Nivel Intermedio — DevTalles, 2024
- NestJS + Microservicios: Aplicaciones escalables y modulares — DevTalles, 2024
- Spring Boot 3, Spring 6 & Hibernate for Beginners — Udemy, 2025

LANGUAGES

- **Spanish:** native
- **English:** intermediate; fluent technical reading and writing, conversation in progress