

ALVARO DOSIO

FULL STACK DEVELOPER

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PROFILE

Full Stack Developer with 4+ years of experience building end-to-end solutions. Specialized in mobile development with React Native and Flutter (SDK integration, Bluetooth and native modules) and backend development with TypeScript (NestJS, AdonisJS) and .NET. Experience with SQL/NoSQL databases and agile methodologies, using AI-assisted development tools such as Claude Code in my daily workflow. I enjoy working in a team, learning from my colleagues and sharing knowledge to strengthen the group.

EXPERIENCE

Full Stack Developer — CodealT (Nov 2024 – present)

- Developed native iOS and Android modules with Expo Modules to integrate SDKs from medical device manufacturers that had no React Native support or sufficient documentation, studying the internals of each SDK until achieving smooth communication with the devices.
- Implemented Bluetooth connectivity with background processing for a glucose sensor: I analyzed the SDK logs (written in another language) to fix the reconnection logic and handled each manufacturer's battery-saving strategy (such as Samsung's deep sleep) by requesting a battery optimization exemption from the app. Result: a stable connection that reconnects on its own, recovers readings and keeps alerts working while the app is in the background.
- Designed interfaces from Figma specs, with statistical analysis of medical data, interactive visualizations and AI-generated reports combining glucose, nutrition, weight and blood pressure. To avoid sending the AI about 6,700 readings per user (one every 3 minutes over 14 days), I designed a backend statistical preprocessing step (percentiles, AGP profile in 30-minute bins, events and metrics by time of day).
- Applied high-performance and sensitive-data protection best practices.
- Built a web platform with React, Next.js and Supabase that uses AI to help non-technical users ideate, plan and structure projects in natural language (vibe coding).
- Implemented AWS Amplify's native iOS and Android SDKs, which had no npm package, with Expo Modules for a low-cost liveness check with face comparison against a reference photo on a HealthTech and FinTech platform; it worked end to end. I also set up unit and E2E testing in CI pipelines.
- Collaborated with multidisciplinary teams using agile methodologies on 3 simultaneous projects.

Full Stack Developer — Vulletic (Feb 2022 – Nov 2024)

- Developed and maintained the backend of two key projects with .NET Core 6 and MongoDB.
- Designed and developed an API for an internal project with Node.js, Express, TypeScript and MySQL.
- Developed and published on the App Store and Google Play a Flutter app with Firebase (authentication) and Mapbox (maps and geolocation), used by about 50 users. I solved the QR-scanning flow to activate electric vehicle chargers, handling the chargers' different states and rejections with clear on-screen messages.
- Developed a real-time management and communication backend for electric vehicle chargers using OCPP, with TypeScript, Express and WebSockets. Since each manufacturer implemented the protocol differently, I coordinated the expected behavior with them; about 20 chargers running.
- Replaced manual deployments (copying files to Windows servers over remote desktop, 15-20 minutes and error-prone) with CI/CD pipelines in Azure DevOps taking 1-2 minutes; managed Linux servers with Nginx.
- Collaborated with multidisciplinary teams using agile methodologies.

Full Stack Developer (freelance) — Surtirally

- Developed an offline-first mobile app with Flutter for field fuel-dispatch operators at the Dakar Rally (Saudi Arabia), without reliable connectivity; it was used for a month by 45 operators from Argentina and local staff.
- Implemented a local SQLite database that syncs with the backend, with a queue of expense and consumption records sent when the connection returns, and stored the backend-assigned ID on each record to avoid duplicates.
- Integrated expense logging with receipt photos, direct contact (calls/WhatsApp) and navigation to distribution points with Google Maps.
- Collaborated with a team that built the backoffice (Vue 3) and the backend (AdonisJS).

Full Stack Developer — VetClinic (UTN San Francisco thesis and product)

- Developed a comprehensive management system for veterinary clinics as a final degree project, working with a real client: patients, inventory, scheduling with an interactive calendar, employees and role-based access control.
- Built email notifications for appointment reminders and account communications.

- Backend with NestJS and PostgreSQL, frontend with Vue 3, deployed to the cloud with Cloudflare (DNS and security) and CI/CD with GitHub Actions.
- Helped convert the system to multi-tenant for commercialization, adding a tenant_id to records and migrating existing data. The original clinic still uses it and the product is in the commercialization stage.

EDUCATION

- **UTN San Francisco** (2022 – 2025): University Technical Degree in Programming (Tecnicatura Universitaria en Programación).
- **ProA Técnica, San Francisco** (2015 – 2021): Programming Technician.

LANGUAGES AND SKILLS

- **Languages:** Spanish (native), English (advanced).
- **Programming languages:** TypeScript, JavaScript, C#, Dart, Kotlin.
- **Mobile:** React Native, Flutter. **Frontend:** React, Vue 3.
- **Backend:** NestJS, .NET, Entity Framework, Ktor.
- **Databases:** PostgreSQL, MySQL, SQL Server, MongoDB.
- **CI/CD and DevOps:** Azure DevOps, GitHub Actions, Expo Application Services.