

Alejandro Aparicio Guerra

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Experienced in developing **web and mobile applications** and implementing robust solutions. My expertise spans **JavaScript, TypeScript, and Python**, with a strong command of frameworks including **React Native, Expo.js, and React.js**. Seeking opportunities to apply my skills and drive professional growth.

PROFESSIONAL EXPERIENCE

Agentic Dream

Mobile developer

Miami, USA (Remote)

June/2023–Present

- Migrated the **MobilePro** application to an **Expo** and **TypeScript** ecosystem, significantly improving development efficiency, maintainability, and code reliability.
- Implemented advanced **global state management** patterns using **Redux Toolkit**, complemented by strategic use of the **Context API** and **custom hooks** for specific modules.
- Integrated back-end services built with **Nest.js**, deployed via **Firebase Cloud Functions**, and connected through the **React Native Firebase** library — enabling a more **scalable, modular, and event-driven architecture**.
- Designed and implemented a **local SQLite database** using **TypeORM**, providing a robust **offline-first experience** and ensuring data consistency in low-connectivity scenarios.
- Developed **user authentication logic** by integrating **RTK Query** with **AWS Cognito's REST APIs**, automating asynchronous state management and data caching, which resulted in a **cleaner, more maintainable security implementation**.
- Created a **custom module** using the **JSONForms** library to enable **dynamic rendering of JSON-based forms** in mobile environments — adapting this web-native tool to React Native due to the absence of equivalent native solutions.
- Built a **custom Expo native module** to integrate the **CubiCasa SDK** — a native-only library — enabling floor plan generation directly from **React Native**. This integration involved native development in **Swift** and **Kotlin**, leveraging **CocoaPods** and **Swift Package Manager** to connect **CubiCasa's REST services** for generating **2D and 3D floor plans**.
- Additionally, contributed to the **native configuration and integration of the Zoom Video SDK** for React Native, ensuring stable and efficient video communication features.

SensorData

Mobile Developer

Montevideo, UY (Remote)

March 2023–August 2023

- Maintained and enhanced the SensorData mobile application for **Android** and **iOS**, developed with **React Native CLI**.
- Automated deployment of versions to Apple Store and Google Play Store using **Fastlane**, optimizing the publishing process.
- Resolved bugs and developed new features, including push notification integration with **OneSignal**.
- Designed new views and made improvements to the user experience, increasing app usability and navigation.
- Utilized the **react-native-maps** library to display equipment location in real-time, trace completed work, and critical alerts within the application.

Basspago

Web and Mobile Developer

Brazil

August/2022–May/2023

- Developed new views with **Material UI** and integrated processes into the Basspago payment and web services platform, using **React.js** with **JavaScript** and its mobile version with **React Native CLI** and **TypeScript**.
- Integrated **Firebase** services with **React.js** and **React Native** for SMS authentication and **Google's two-factor authentication**.
- Implemented **KYC** processes by integrating **React.js and React Native** with the **SUMSUB SDK**.
- Created **PDF** invoices from the front-end as part of the payment flow, ensuring traceability and documentary compliance.
- Incorporated advanced security measures, including two-factor authentication (2FA).
- Actively participated in agile teams under **Scrum** methodologies, collaborating in iterative development sprints and continuous reviews.

Elastic Dev Team

Web and Mobile Developer

Bogotá COL (Remote)

February/2021–August/2022

- Developed new views using **Material UI**, integrating functionalities to the **Ecolog web** platform with **React.js (JavaScript)** and its mobile version with **React Native CLI and TypeScript**, ensuring a consistent experience across platforms.
- Integrated **Firebase** services in **React.js and React Native** for user authentication with **Firebase Auth**, and data persistence using **Firebase Cloud Firestore**, enabling real-time synchronization between devices.
- Designed and implemented a Dynamic Questions module that allows flexible creation of interactive forms oriented toward strategic decision-making, improving the collection of key data in the application.
- Participated in the design of reusable component architecture, promoting good development practices and code maintainability.

Intellisys

Developer

Dom. Republic (Remote)

December/2020-January/2021

- Developed and customized modules in **ERPNext** to adapt the system to specific client requirements, using **Python and JavaScript**.
- Implemented user interfaces with **HTML** and **CSS**, ensuring intuitive and consistent UX within the **ERPNext** system.
- Configured and managed **MariaDB** databases for efficient storage of transactional data and **ERP** configuration.

TodoLegal

Back-end Developer

Ecuador (Remote)

August/2020–October/2020

- Developed **REST** services using **FastAPI (Python)** for creating and managing **Smart Contracts**, optimizing the performance and scalability of operations.
- Implemented solutions for generating dynamic reports using the **ReportLab** tool, facilitating the creation of customizable and automated reports from processed data.
- Integrated **AWS** solutions for **API** deployment and scalability, using services such as **AWS Lambda** for serverless execution and **Amazon S3** for efficient data storage.
- Implemented monitoring and logging mechanisms, improving traceability and real-time incident resolution.

Cuba

Systems and Network Administrator

September/2010–July/2020

- Administration and maintenance of **Linux** servers (**CentOS, Ubuntu, Debian**), focusing on security, performance, and continuous monitoring.
- Implementation and management of virtualization solutions with **VMware, KVM, Proxmox, and Docker**, optimizing resources and scalability.
- Design and configuration of **LAN/WAN** networks, including security protocols such as **IPSec, VLAN, VPN**, and firewalls, optimizing connectivity and network equipment management.
- Resolution of software and hardware problems, with experience in support for accounting software and office tools (Microsoft Office and accounting systems).

EDUCATION

University of the Informatics Sciences

Computer Science Engineering

Havana Cuba

2005-2010

ADDITIONAL SKILLS

- Capacity for teamwork.
- Good communication and oral expression
- Constant learning
- Native Spanish, Intermediate English B2, Intermediate Portuguese