

# NICOLÁS LÓPEZ DE LERMA LÓPEZ

## FULL STACK DEVELOPER



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Cáceres, Spain

### • ABOUT ME

I am a person who works efficiently in a team and autonomously. I stand out for being highly decisive, adapting to each problem and providing quality solutions. Furthermore, I have a proactive attitude and I take great care of detail in my developments.

### • SKILLS

I am an experienced professional with solid experience in application development. In addition to developing clean, scalable and reusable code, thanks to my experiences I have a global vision of the project.

I am highly versatile in development, I provide great code quality from databases to a magnificent UX experience.

#### Lenguajes

Spanish, English and Portuguese.

### • EDUCATION

#### Universidad de Extremadura

##### Computer Software Engineering

- Participant in research project  
BigData I3Lab (Quercus)
- Python, Java, design patterns, UX, BD, exceptions  
control, documentation, test, algorithms, LLM...

#### Autodidact

Self-learning of different programming languages, creating projects from scratch for own clients and taking multiple courses (Laravel, NextJs, React Native, AlpineJs, VueJs, Domain Driver Design Test Driver Design, API Rest, Nginx and Apache, Cibersecurity...) and all work experience.

#### I.E.S Maestro Domingo Cáceres

##### Bachelor of Science

- Specialization in Mathematics and Physics

## • WORK EXPERIENCE

**CTO** 10-2024 / ...

### **Laurel Gaming**

I lead the technological development strategy for the Laurel Gaming mobile application, built with React Native for iOS and Android within a monorepo architecture, supported by a hybrid backend (Firebase + Google Cloud developed with Node.js and Prisma) following DDD and TDD principles. Additionally, I oversee the development and maintenance of the admin panel and landing page, both built with Next.js.

- Technical leadership and team coordination: I manage a multidisciplinary team (design, product, marketing, and QA) to ensure efficient deliveries aligned with business goals.
- Architecture and innovation: I implemented a monorepo architecture to enhance collaboration and scalability, ensuring the adoption of the latest versions and best practices in mobile development.
- User experience optimization: I significantly improved user retention by implementing a predictive and self-adjusting notification system, along with a robust gamification system that boosts engagement and participation.
- Business impact: I contributed to app store positioning (App Store & Google Play) by increasing the app listing value and reducing user inactivity through personalized notifications and content delivery.
- Game development with the MatterJs graphics engine and native element rendering with React Native Skia
- Implementation of a custom artificial intelligence system with fine tuning to predict the likelihood that a notification (generated by AI) will increase the user's interaction time.

These achievements highlight my strong leadership in technology and my ability to drive successful, high-impact projects, always focused on execution excellence and continuous improvement.

### **Full Stack Developer - Team Lead (Freelance)** 04-2024 / ...

#### **Fundecyt PCTEX**

Technologies: Laravel, Alpine.js, Livewire, Atlassian Tooling, REST API, React Native, MySQL

- Served as Scrum Master, leading the integration of developers into Scrum and Kanban methodologies, fostering a structured workflow within a monorepository.
- Managed tasks, projects, and user roles, ensuring effective collaboration and productivity across teams.
- Spearheaded the development of mobile applications for tracking employee work hours and visualizing project management activities, phases, and tasks for each employee.
- Integrated external tools into Jira, including Tempo, Synergy, and Microsoft Teams, to enhance resource management and automate deployment processes using Docker and Bitbucket.
- Championed the adoption of REST APIs, JSON APIs, Clean Code practices, SOLID principles, and component-oriented programming, significantly reducing resource expenditure.
- Developed and refactored ERP modules, creating reusable and customizable components and functions, and implementing permission management for enhanced security.

## **Full Stack Developer 09-2023 / 10-2024**

### **Grupo Blendio**

Development of Bitool, SalesTool Blendio Logistic, Blendio PostSales, and Various Web Solutions

Technologies: Laravel 10, Alpine.js, Livewire, REST API, Redis, Postman, React Native, Expo

- Led the development of multiple management tools and websites for various departments, applying rigorous business logic to ensure seamless functionality across the board.
- Utilized Laravel 10 with Livewire and Alpine.js for web development, incorporating features such as queue management, REST APIs, and Redis for optimized performance and scalability.
- Developed 4 mobile applications using React Native and Expo (Bitool, BitoolSales, Blendio PostVenta, Blendio Logistics), integrating them perfectly with web applications. Since the apps were not private, I developed an "Over The Air" real-time update system to provide immediate updates, guaranteeing up-to-date information for more than 600 employees at Blendio and its associated companies.
- Managed secure access to mobile and web applications by implementing Laravel Passport for API Gateway, providing modular access to department-specific APIs while maintaining strict user authentication.
- Led the development of the company's "Intranet" web application, serving as the central API Gateway for all mobile and web apps. This included managing user permissions, monitoring usage statistics, handling access restrictions, and tracking errors.
- Followed advanced design patterns, including Clean Code principles, Component-Oriented Programming, Hexagonal Architecture, and Domain-Driven Design (DDD) methodologies.
- Employed Scrum-Ban as the work methodology, utilizing Atlassian tools for project management, pipelines, and webhooks to automate deployments. Integrated Docker for efficient deployment processes and external services such as Qodana, Slack, and OpenAI for AI functionalities.

## **Full Stack Developer 01-2023 / 06-2023**

### **WealtyApp**

Technologies: Next.js, React Native, Laravel, MySQL, REST API, Postman

- Led the development of the WealtyApp platform, including business interfaces, admin panel, mobile applications, and landing pages.
- Integrated payment systems and transaction tracking across web and mobile platforms using MangoPay and Tink.
- Developed and maintained backend solutions adhering to SOLID principles, Clean Code standards, and DDD/TDD methodologies.
- Built flexible, reusable react components and implemented state management using Redux Toolkit, delivering a seamless UX through SCSS and Figma prototypes.
- Spearheaded the native development of iOS and Android apps using React Native, leveraging device-specific APIs to optimize performance and user experience.
- Automated deployment processes for both Android and iOS using Firebase. Managed media and tokens with Firebase Storage, implemented push notifications via Firebase Cloud Messaging, and utilized Firebase Analytics and Crashlytics for performance monitoring and reporting.
- Ensured project workflow efficiency by managing version control with GitLab and task management with ClickUp.

## **Full Stack Developer (Freelance)**

### **IoT Home Automation Mobile App Development 2020 / 2021**

- Developed a mobile application in React Native for home IoT management, enabling users to control and monitor various Arduino-based devices implemented in a smart home environment.
- The app provided seamless integration with devices such as lights, temperature sensors, air conditioning units, blinds, and irrigation systems, allowing real-time monitoring and remote control via a user-friendly interface.
- Integrated with native device APIs to leverage advanced functionalities, enhancing the overall performance and user experience.
- Focusing on clean code, reusable components, and maintaining efficient performance with minimal resource consumption.
- Followed best practices in security and data encryption to ensure that users' smart home systems remained secure while interacting with the app.
- API Rest with Laravel Breeze

## **Full Stack Developer (Freelance) 2018 / 2024**

### **Developed in Laravel**

- ERP application for the company Celmet S.L. Celmet is a company dedicated to the sale of metals, minerals and fuels in the ports of northern Europe. In charge of the development of the project from the definition of the database and requirements gathering to the usability tests with real users for a correct User Interface. Implementation of a signature and payment system for generating invoices with Rest API and Laravel.

- Full Stack Developer of [www.encuentrapianista.com](http://www.encuentrapianista.com) web application,  
Technologies: Laravel, Bootstrap, MySQL, JQuery.

Developed following flexible responsive design and custom layouts for a quality UX experience. as well as secure and robust backend development

Management of user roles from an intranet for administrators where they can manage the entire application, implementation of the STRIPE payment system, code optimization using algorithms and the latest versions of PHP and integration of different services through API Rest.

## **Full Stack Developer (Freelance) 2018 / 2024**

- Team Lead – Sports Competition Management Applications  
(Sports: Tennis, Cycling, and Racing)
  - Led the development of applications for managing sports competitions, including user requirement gathering, resource allocation, and team management across multiple tasks.
  - Oversaw the project life cycle, ensuring continuous delivery and adherence to advanced design patterns such as Decorator, Singleton, and Strategy, while maintaining comprehensive documentation and robust exception handling.
- Project Manager & Full Stack Developer – Online Order and Restaurant Management System  
(Universidad de Extremadura, Research Group)  
Technologies: Next.js, React Native, REST API, Java SpringBoot with Maven
  - Managed a team of 3 developers to deliver a web application for managing online orders and restaurants, ensuring continuous integration of modules and close supervision of the development process.
  - Acted as both Project Manager and Full Stack Developer, gathering client requirements, creating prototypes in Figma, and overseeing the implementation of the SCRUM methodology.
  - Developed and integrated web and mobile applications, alongside the API, ensuring seamless performance across platforms.
- Java – Multi-Threading Algorithm Development
  - Designed and implemented algorithms to control and optimize the execution of multiple threads in a Java application, improving resource efficiency and performance.