

Alejandro López Robles
Web Architecture | Backend | AI Engineer

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Web Engineer with a strong backend focus, experienced in leading the design and development of scalable, secure, and maintainable web systems used in production. Deep expertise in backend architecture, API design, and data modeling, with a strong understanding of how frontend and backend systems interact at scale. Proven ability to take full ownership of backend services—from requirements analysis and implementation to deployment, monitoring, and long-term maintenance. Regularly solves complex technical and business problems, balancing performance, reliability, and maintainability.

Professional Experience

Backend Engineer

Secret Source Technology SL, Las Palmas, Spain | September 2023 - November 2025

- Designed and implemented backend services supporting multi-client and multi-environment deployments, with a strong emphasis on reliability and backward compatibility.
- Built and evolved RESTful APIs used by web and mobile clients, handling versioning, error handling, and contract stability.
- Identified and resolved performance and scalability issues through query optimization, caching strategies, and async processing.
- Designed and maintained database schemas while handling data migrations and legacy constraints in live systems.
- Implemented secure authentication and authorization flows and managed sensitive configuration and credentials.
- Took full responsibility for production incidents, root-cause analysis, and long-term fixes rather than short-term patches.
- Actively contributed to improving code quality through reviews, documentation, and architectural discussions.

Full Stack Developer

Freepik Company SL, Malaga, Spain | May 2020 - July 2023

- Designed and built responsive user interfaces and dynamic web experiences using modern frontend technologies such as React, JavaScript ensuring optimal performance and accessibility across devices.
- Collaborated closely with backend teams to implement and enhance robust APIs using Node.js and serverless architecture, enabling seamless data flows between frontend, backend, and cloud services.
- Optimized data rendering and client-side performance by implementing advanced techniques like virtualized lists, code splitting, lazy loading, and progressive rendering patterns.
- Developed reusable component libraries and UI patterns, reducing duplication and accelerating feature delivery while maintaining consistency across product modules.
- Partnered with product managers, UX designers, and QA engineers to translate business requirements into technical specifications, ensuring features were delivered on time and met high-quality standards.
- Integrated authentication flows, permissions, and secure session management within the application, enforcing best practices for data privacy and secure access.
- Utilized version control with Git/GitHub, performed code reviews, and contributed to CI/CD pipelines to maintain code quality and streamline deployments.
- Actively participated in architectural discussions, performance tuning, and technical mentoring, influencing frontend strategy and improving team delivery workflows.

Web Developer

Plytix SL, Malaga, Spain | September 2017 - April 2020

- Focused on learning the product, code standards, and team workflows while contributing to small features, UI improvements, and bug fixes.
- Worked closely with senior developers to understand API usage, data models, and frontend - backend interaction.
- Worked on frontend logic and API integration, handling real user data and business rules.
- Actively participated in planning discussions, raising technical concerns and suggesting practical improvements.

- Helped onboard new team members by explaining workflows, project structure, and common patterns.
- Built confidence working on a growing SaaS product used by international clients and delivered features with attention to performance, maintainability, and user experience.
- Fixed bugs reported by QA and customers, learning how to debug production issues and prevent regressions.

Education

Bachelor's Degree in Computer Science September 2013 - July 2017

Universitat Oberta de Catalunya at Barcelona, Spain

Key Skills

- **Backend:** PHP, Node, Express, Django, Spring Boot, REST API, FAST API
- **Database:** MySQL, PostgreSQL, MongoDB, Oracle
- **Cloud & DevOps:** AWS (EC2, S3, RDS), Docker, CI/CD pipelines, Infrastructure automation
- **Frontend:** React, Next, JavaScript, TypeScript