

Aythami Melián Perdomo

Senior PHP Backend Developer | PHP Architect | Secure Software Engineer (SSDLC)

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Professional Summary

Senior PHP Backend Developer and PHP Architect with 20+ years of experience building and evolving scalable B2B web platforms, SaaS products, and APIs using PHP (Laravel / CodeIgniter) and MySQL. Strong focus on clean, testable, maintainable code applying SOLID principles, modern architecture patterns (including Hexagonal Architecture), and CI/CD best practices. Comfortable working with legacy codebases and progressively modernizing systems while ensuring high quality through automated testing and code reviews. Proven ability to collaborate cross-functionally in Agile teams and contribute to frontend work (JavaScript / HTML5 / CSS3, React fundamentals) when needed.

Core Skills

PHP 8.x · Laravel · CodeIgniter · REST APIs · Backend Services · MySQL · Hexagonal Architecture (Ports & Adapters) · SOLID · Clean Code · Design Patterns · DDD concepts · PHPUnit · Unit/Integration/Functional Testing · Git · CI/CD · Docker · Code Reviews · Agile/Scrum · JavaScript (ES6+) · HTML5/CSS3 · React/Angular (support level) · OWASP Secure Coding · SSDLC

Soft Skills

Strong communication · Cross-functional collaboration · Ownership & accountability · Proactive problem-solving · Mentoring & coaching · Analytical thinking · Root cause analysis · Quality mindset · Continuous improvement · Adaptability · Resilience · Pragmatic decision-making

Professional Experience

Freelance – Senior PHP Backend Developer / Architect (Founder)

CodeSecure Forge – Gran Canaria, Spain – 2014–2025

Delivered backend and API development for secure, scalable PHP applications in regulated and enterprise environments.

Key Contributions aligned to the role:

- Designed and implemented backend services and API layers in PHP (Laravel / CodeIgniter) with emphasis on clean, testable code and maintainable architecture.
- Led gradual modernization of legacy PHP systems, improving structure, reliability, and scalability while minimizing downtime and risk.
- Built MySQL schemas, optimized queries, and improved data integrity for high-volume transactional systems.
- Implemented CI/CD pipelines (GitLab) with quality gates (SonarQube), ensuring consistent delivery and code quality.
- Conducted architecture reviews and enabled teams through code reviews and mentoring to enforce SOLID/Clean Code standards.
- Developed security-first engineering practices (SSDLC) as an added value, reducing defect rates and preventing regressions.

Tech stack: PHP 8.x · Laravel / CodeIgniter · REST APIs · MySQL · Git · GitLab CI/CD · Docker · SonarQube · Snyk · Linux · OWASP Secure Coding · integration tests (ad hoc) · Jira · Moodle · Redmine

Senior PHP Developer / Application Security Lead

Lazarus Technology – Spain – 2018–2024

Led backend development and application security strategy for enterprise-level platforms. Collaborated with cross-functional teams to ensure compliance with European data protection standards.

Key Contributions:

- Developed core backend modules and services for enterprise B2B platforms, collaborating with cross-functional teams.
- Introduced **automated code quality** with SonarQube and strengthened CI/CD delivery practices.
- Supported incident response and root-cause analysis for production issues, proposing long-term fixes.
- Established secure coding and engineering guidelines and delivered internal enablement sessions.

Tech stack: PHP 7.x / 8.x · CodeIgniter (if applicable) · REST APIs · MySQL · Git · GitLab CI/CD · SonarQube · Linux · OWASP · Incident handling · Secure SDLC · Moodle · Redmine

IT Analyst & Online Software Engineer (Healthcare)

Atos | Las Palmas de Gran Canaria | 2014 – 2018

C.H.U.I.M.I. (Public Healthcare) | On-site

Worked on high-performance, mission-critical web applications for a **highly regulated public healthcare environment** (4th level LOPD), helping modernize the organization's digital capabilities and ensuring service continuity and data integrity.

Key contributions:

- Gathered functional and technical requirements with **stakeholders and clinical teams**, translating business needs into reliable backend solutions.
- Designed and developed critical **web applications in PHP 5.4 and PHP 7.x**, ensuring maintainability and long-term scalability.
- Implemented robust data handling strategies with **distributed databases**, optimizing performance and ensuring high availability.
- Contributed to integrity and traceability mechanisms inspired by **blockchain-style auditability** (immutable event tracking / provenance), improving trust and compliance.
- Worked in **Linux production environments**, supporting operational reliability, security hardening, and incident resolution.
- Participated in iterative delivery cycles, collaborating closely with multidisciplinary teams to continuously improve platform quality.

Tech stack: PHP 5.4 / 7.x · MySQL · Linux · Distributed data systems · High-availability environments · Secure development practices · Redmine

Senior PHP Developer (eLearning / Public Sector)

IECISA (now INETUM) | Full-time | 2005 – 2013

Las Palmas de Gran Canaria, Spain | On-site

Developed and maintained large-scale eLearning systems supporting the **continuous training of public school and high school teachers** for the Canary Islands and Asturias regional governments, built on **Moodle LMS**, managing end-to-end training lifecycle workflows.

Key contributions:

- Designed and developed backend modules for Moodle-based platforms, enabling scalable management of training programs and administrative processes.
- Implemented key business workflows covering the full training lifecycle: **enrollment requests, merit-based access, course completion, certification issuance, and HR notifications** impacting professional salary review.
- Built and optimized database-driven features to support high user volumes and reliable reporting.
- Maintained and improved legacy PHP systems through refactoring and enhancement, ensuring platform stability over long service periods.
- Coordinated with functional teams and public administration stakeholders to ensure requirements accuracy and compliance with institutional standards.

Tech stack: PHP · Moodle LMS · MySQL · Linux · Enterprise eLearning platforms · Public Administration processes

Certifications

Zend / Perforce

- Zend Certified PHP Engineer (ZCPE) — In Progress (Self-study)

APlsec University (Oct 2024)

- API Authentication
- API Security Fundamentals
- OWASP API Security Top 10

Scrum.org

- Professional Scrum Developer™ I (PSD I) – Oct 2024

LinkedIn Learning (Jun–Jul 2024)

- PHP: Creating Secure Websites
- MVC Frameworks for PHP
- Software Architecture Foundations
- Continuous Integration with GitLab
- Generative AI for Cyber Range
- Leadership in Software Projects

(+40 additional certifications covering Git, Agile, DevOps, AI, and secure coding)

Publications & Open Knowledge

Book: "Manual práctico de Seguridad en PHP 8.x: Protegiendo Aplicaciones Web Contra Amenazas"

Amazon Kindle: <https://www.amazon.es/dp/B0D2C3CXM9>

Research Papers & Articles: Published technical papers on secure development practices, available at:

GitHub Papers: <https://github.com/ajmelian/papers>

Open Source Contributions: Maintains libraries and projects on secure coding in PHP, API hardening, and document workflows:

GitHub Profile: <https://github.com/ajmelian>

Languages

Spanish (Native), English (B2 - professional working proficiency)

Target Roles & Availability

Open to full-time **remote** roles in:

- Senior PHP Backend Developer
- PHP Architect / Backend Lead
- Secure SDLC / DevSecOps (value-add)

Remote only | Immediate incorporation