RÉSUMÉ

ALEXANDER TORRES

Senior Software Engineer · PHP/Laravel · Flutter · Clean Architecture & DDD

8+	−40 %	−30 %	99.9 %
YEARS IN BACKEND AND MOBILE	ENTERPRISE ONBOARDING TIME	PRODUCTION LATENCY	SLA ON IOT INFRASTRUCTURE

CONTACT

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CORE STACK

PHP · Laravel · Flutter · Dart · React · TypeScript · Python · Node.js · PostgreSQL · MySQL · Docker · Kubernetes · GitLab

EDUCATION

2025 – PRESENT

BSc in Computer Engineering

Universitat Oberta de Catalunya (UOC) — Barcelona, Spain (Online)

- Expected graduation: 2029.

SUMMARY

Senior Engineer with 8+ years designing and scaling backend and mobile systems in regulated sectors: government, energy, sustainability and critical industry. Specialist in Clean Architecture + DDD, legacy system modernisation and multi-cloud ETL pipelines (AWS/Azure). Documented results: −40 % enterprise onboarding time, −30 % production latency, 99.9 % SLA on IoT infrastructure. Hands-on profile that combines architectural depth with direct delivery: from domain design to code in production.

EXPERIENCE

SYGRIS — JUL 2024 – PRESENT

Senior Software Engineer — Data & Backend

Technical lead for the ETL ecosystem and modernisation of a B2B Low-Code sustainability platform with high technical debt and 24/7 availability requirements.

- Designed a self-service ETL architecture built into the product that removed the dependency on the technical team for enterprise rollouts, cutting onboarding time by 40 %.
- Led the migration of the critical backend from PHP 7 to PHP 8.4 + Eloquent ORM, replacing 100+ Stored Procedures and reducing technical debt by 35 %, with a direct impact on the team's delivery speed.
- Led the migration of legacy Backbone.js modules to a React architecture (Microfrontends), increasing feature delivery speed by 20 %.
- Optimised Python/Flask ETL pipelines with asynchronous Node.js consumers on AWS and Azure, reducing end-to-end processing times by 25 %.

PHP · Eloquent ORM · JavaScript · Backbone.js · React · TypeScript · Python · Flask · Node.js · TDD · Hexagonal architecture · OOP · Docker · Jenkins · GitLab · AWS · Azure CLI

ACCENTURE (SPANISH GOVERNMENT) — JAN 2024 – JUL 2024

Senior Software Engineer — Flutter

Architecture and implementation of the Spanish Government's official Digital Certificate app, designed for 40M+ citizens under government regulatory standards.

- Architected the app's technical foundation (Clean Architecture + TDD) with 90 % test coverage from the first sprint, ensuring scalability and auditability in a regulated context.
- Built native Flutter-Kotlin (Android) and Flutter-Swift (iOS) bridges integrating cryptographic libraries, enabling secure end-to-end digital signing on both platforms.
- Standardised Code Review processes and mentored the junior team, reducing post-release bugs by 15 % and speeding up the onboarding of new members.

2020

Higher Vocational Degree in Cross-Platform Application Development (DAM) — 2nd year and qualification

UNIVERSAE — Spain

- Final project with Honourable Mention: “PastiTrack”, a mobile app for managing adherence to medical treatments.
- Featured project: “surveyGenerator”, a full-stack system for automatic form generation and data analysis.

2019 – 2020

Higher Vocational Degree in Cross-Platform Application Development (DAM) — 1st year

IMF Business School — Spain

LANGUAGES

Spanish
Native

English
B2 Upper-Intermediate (CEFR)

- Led the project’s end-to-end technical delivery, meeting 100 % of regulatory milestones on time and without incidents in a highly supervised government environment.

Flutter · Kotlin · Swift · Clean Architecture · TDD

PLENOIL — MAY 2023 – JAN 2024

Senior Software Engineer

Critical systems for a national network of fuel stations: real-time IoT, web platforms and a mobile app under high availability.

- Architected the IoT communication system over MQTT for dispensing devices, achieving 99.9 % availability in real-time synchronisation of critical data.
- Implemented CI/CD pipelines on self-hosted GitLab that shortened production deployment cycles by 30 % and eliminated manual errors in releases.
- Built web platforms (PHP/Laravel + React) and a Flutter mobile app (BLoC, GetX) under Clean Architecture, unifying the experience for operators and customers and removing duplicated business logic across platforms.
- Designed and maintained high-availability infrastructure (Nginx, Linux) sustaining the SLA of REST APIs and transactional inventory systems under peak load.

MQTT · GitLab CI/CD · PHP · Laravel · React · Flutter · Nginx · Linux

OTIS ELEVATOR CO. — MAR 2022 – MAY 2023

Software Engineer

Modernisation of critical operational management systems for a multinational present in 200+ countries.

- Led the migration of legacy systems to Laravel 9 and CodeIgniter 4, reducing production incidents by 20 % and raising test coverage of the inherited codebase by 40 %.
- Re-architected critical APIs by introducing query optimisation and pagination on endpoints that lacked both, reducing response latency from 2 s to 400 ms (–80 %) in globally used operational management systems.
- Modernised internal tools to JavaScript ES6+, reducing the load time of operational interfaces by 25 % and removing legacy frontend technical debt.

Laravel · CodeIgniter · JavaScript

NETSUBASTA (SINIESTRAUTO) — JAN 2021 – MAR 2022

Full Stack & Mobile Engineer

End-to-end development of a real-time online vehicle auction platform: backend, WebSockets and a cross-platform mobile app.

- Optimised the platform’s asynchronous data handling and memory usage, reducing real-time latency by 30 % under concurrent load.
- Built a PHP backend with WebSockets supporting 1,500 registered users and peaks of 10–70 concurrent bidders per auction across multiple simultaneous auctions, with real-time bid synchronisation through OAuth REST APIs.
- Architected the Flutter mobile app with Clean Architecture + BLoC, reaching 100 % coverage in the domain layer.

PHP · WebSockets · OAuth · Flutter

SNNTECH

FEB 2019 – FEB 2022

Full Stack Developer — Mobile & Web

- Built RESTful APIs and business logic in PHP (CodeIgniter, Yii2) following MVC patterns for business management systems.
- Built cross-platform Flutter mobile apps with an MVP architecture and BLoC state management.
- Designed relational data schemas in MySQL optimised for high-concurrency queries.
- Built a form generator for recording employees' health status, document management and POS apps in React Native, and websites with WordPress.

PHP · CodeIgniter · Yii2 · Flutter · React Native · WordPress · MySQL

PROJECTS

RELOSYS

MAR 2022 – PRESENT

SaaS ERP for removal companies

Independent end-to-end project, from domain architecture to production.

- DDD + Clean Architecture with 8 decoupled bounded contexts and independent deployment per domain.
- Domain events between contexts (BudgetAccepted → Contract → Service) without direct coupling.
- 100 % of the quote → contract → execution cycle digitised, with real-time traceability.

PHP 8.2 · Laravel · PostgreSQL · Flutter · DDD · Docker · Sanctum

Own products and client work, from idea to production: see projects.

SKILLS

BACKEND

PHP 8.x · Laravel · Symfony · CodeIgniter · Python · Flask · Java · Spring Boot · Node.js · REST API · API Design

FRONTEND

React · Microfrontends · JavaScript ES6+ · TypeScript · HTML5 · CSS3

DATA & ETL

PostgreSQL · MySQL · Redis · Firebase · ETL Pipelines · Async Consumers · Hibernate JPA · Query Optimization

TESTING & QUALITY

TDD · PHPUnit · Unit Testing · Integration Testing · Code Review · Test Coverage

MOBILE

Flutter · Dart · BLoC · Riverpod · GetX · MethodChannels · Kotlin (Android) · Swift (iOS) · App Store / Google Play

ARCHITECTURE & DESIGN

Clean Architecture · Hexagonal architecture · DDD · OOP · Domain Events · Event-Driven Architecture · Modular Monolith · Microservices · WebSockets · MQTT · OAuth 2.0 · RBAC · SOLID

DEVOPS & CLOUD

Docker · Podman · Kubernetes · GitLab CI/CD · Jenkins · AWS (Lambda, CloudWatch) · Azure (CLI) · GCP · Nginx · Linux (Debian) · Git · GitHub

METHODOLOGIES

Agile · Scrum · Kanban · Jira · Git Flow · Legacy Modernization · Technical Mentoring