

# FELIPE ARAUJO PACHECO

Backend Software Architect | .NET/C# · Azure · AWS | DDD · Microservices · Event-Driven

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## PROFESSIONAL SUMMARY

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Backend Software Architect with 15+ years designing high-throughput, cloud-native distributed systems at product-driven companies across energy, hospitality, and e-commerce. Specializes in Domain-Driven Design (DDD), event-driven microservices, and API-First architecture on Azure and AWS. At Eni Plenitude (Spain), architected a proprietary backend platform serving 500K+ customers at 99.95% uptime — from bounded context modeling and API contract design to Kafka/Service Bus event schemas and cloud deployment. At Grupo Xcaret, authored the architectural blueprint to migrate a monolithic ERP to independent microservices (Ticketing, Payments, Customer, Operations domains), cutting costs by 30%. Deep expertise in distributed data consistency (Outbox, Saga, CQRS), resilience patterns (Circuit Breaker, Retry, Bulkhead), API security (OAuth2/OIDC, JWT), and observability (structured logging, distributed tracing, SLO design). Fluent English (C1), native Spanish. Authorized to work in the EU.

## CORE COMPETENCIES & TECHNICAL SKILLS

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**Architecture & Design Patterns:** Domain-Driven Design (DDD), Bounded Contexts, Aggregates, Domain Events, CQRS, Event Sourcing, Saga Pattern, Outbox/Inbox Pattern, Hexagonal Architecture, Clean Architecture, API-First Design, Strangler Fig, Anti-Corruption Layer

**Backend & APIs:** C#, .NET 8, .NET Core, REST APIs, GraphQL, gRPC, OpenAPI/Swagger, API Versioning, Entity Framework, LINQ, SQL Server, PostgreSQL, Cosmos DB, DynamoDB

**Messaging & Streaming:** Apache Kafka, Apache Avro, Schema Registry, Azure Service Bus, AWS SQS/SNS, Event-Driven Architecture, Competing Consumers, Dead-Letter Queues

**Security Architecture:** OAuth2, OIDC, JWT, API Gateway Security, Role-Based Access Control (RBAC), Azure Key Vault, AWS Secrets Manager, mTLS, Zero-Trust API Design

**Observability & Reliability:** OpenTelemetry, Distributed Tracing, Structured Logging (Serilog), SLO/SLA Design, Health Checks, Circuit Breaker, Retry/Bulkhead (Polly), Azure Monitor, AWS CloudWatch

**Cloud & Infrastructure (Azure):** Functions, App Services, API Management, Cosmos DB, SQL Database, Storage, Key Vault, Azure DevOps, Azure Service Bus

**Cloud & Infrastructure (AWS):** Lambda, ECS, EKS, Aurora, DynamoDB, S3, SQS, API Gateway, CloudFormation, CloudWatch

**DevOps & Tooling:** Docker, Kubernetes, Terraform, CI/CD Pipelines, GitHub Actions, Azure DevOps Pipelines, Infrastructure as Code, Architecture Decision Records (ADRs)

**Technical Leadership:** Solution Design, RFC/ADR Process, Cross-Team Architecture Alignment, Technical Governance, Code Reviews, Vendor Evaluation, Agile/Scrum/Kanban

**Integrations:** Salesforce, SAP Commerce Cloud, Mirakl, Kraken, SynXis, Twilio, Buyapowa, WorldPay, Ingenico, Adyen |

**Frontend (supplementary):** Angular, TypeScript, .NET MAUI

## PROFESSIONAL EXPERIENCE

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## Backend Software Architect / Tech Lead

April 2024 – Present

*Eni Plenitude Iberia | Santander, Spain*

- Designed the backend architecture of a proprietary cloud-native energy platform on Azure (Functions, API Management, Service Bus, Cosmos DB) using DDD bounded contexts — Billing, Customer Contracts, Regulatory Compliance, and Provider Integrations; authored ADRs for all major technology and pattern decisions; platform serves 500K+ customers at 99.95% uptime
- Defined API-First integration contracts and Avro event schemas across 50+ provider integrations; established observability baseline with structured logging (Serilog), distributed tracing, and SLO-based alerting — reducing production defects by 40% and time-to-market by 25%
- Architected anti-corruption layer and adapter pattern for Kraken energy platform integration, Twilio IVR, Buyapowa referral engine, and regulatory APIs (CNMC, ERSE) — achieving 100% compliance and 60% improvement in customer self-service
- Designed event-driven referral campaign bounded context with domain events and Outbox pattern for guaranteed delivery; applied OAuth2/OIDC and API Gateway security policies across all consumer-facing endpoints

## Freelance Backend Architect

January 2020 – Present

*Lynx9 | Mexico City, Mexico (Remote) — concurrent with Xcaret role*

- Architected hospitality microservices on AWS (EKS, Lambda, SQS, API Gateway) integrated with SynXis and RoiBack via API-First contracts; designed idempotent event consumers and retry/dead-letter strategies to guarantee 99.9% uptime processing 50,000+ monthly transactions for RCD Hotels, Royalton, and Ana y José
- Designed a domain-driven unified payment engine connecting 7+ gateways (WorldPay, Ingenico, Adyen, BBVA, MIT, Amex, Multibank) — applying Strategy pattern for multi-currency routing and Facade pattern for Salesforce integration — cutting new-client payment integration time by 70%

## Backend Technical Lead & Solution Architect

November 2021 – April 2024

*Viavox Agencia Tecnológica | Spain (Remote)*

- Designed the solution architecture for a payment gateway (C#/.NET Core) and the SAP Commerce Cloud + Mirakl integration layer for Nestlé Italy, Danone France, and EDNA International — defining API contracts, error-handling policies, and idempotency strategies that reduced manual order processing by 80%
- Architected a data pipeline and analytics layer (AWS Lambda, QuickSight) with 30/60/90-day predictive models; defined structured logging and alerting standards that reduced incident resolution time by 50%
- Established technical standards and code review guidelines for the backend team; reduced production incidents by 60% by designing a full automated test suite (unit, integration, contract testing)

## Head of Software Development & Solution Architect

January 2018 – April 2024

*Grupo Xcaret | Cancun, Mexico*

- Authored the architectural blueprint for Xcaret's proprietary digital platform — applying DDD to define bounded contexts (Ticketing, Reservations, Payments, RFID, Reporting), domain events, and inter-service contracts; directed design and delivery across teams of up to 15 .NET/C#/Java engineers
- Led DDD-guided Strangler Fig migration from monolithic ERP to AWS microservices (.NET Core) — identified seams, defined anti-corruption layers per context, and designed Saga-based orchestration for cross-domain booking flows — reducing operational costs by 30% and decoupling team delivery cycles
- Designed Salesforce integration architecture for omnichannel customer service; specified SynXis API integration and certification strategy for Hotel Xcaret, unifying booking, inventory, and payment flows across 7 parks and hotels
- Designed RFID wristband photo system architecture for 3 parks (Xenses, Xplor, Xplor Fuego): event-driven photo capture pipeline, near-real-time processing, and standardized hardware/software interface layer

*Grupo Xcaret | Cancun, Mexico*

- Designed and evolved Xcaret's proprietary sales and ticketing platform from the ground up on cloud PaaS (C#, SQL Azure) — defined the data model, API surface, and integration architecture; cloud migration reduced infrastructure costs by 35% and achieved 99.9% uptime under 3M+ tickets/year load
- Architected centralized ticketing system for 7 parks with multi-currency payment processing (WorldPay, Ingenico, 7 currencies) — designed idempotent purchase flows and payment saga to handle failures without double-charges; increased international online sales by 40%
- Designed the pre-purchase web flow integration with physical gate systems — event-driven sync reduced park entry times by 70% at peak; defined Kanban-based delivery process for 4 cross-functional teams with 95% on-time delivery

## EDUCATION

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### **Bachelor's Degree in Computer Science, Application Development**

*Universidad de Guadalajara, Mexico | 1994 – 1998*

### **Electronic Communications Engineering**

*Universidad de Guadalajara, Mexico | 1990 – 1994*

## PROFESSIONAL DEVELOPMENT & TRAINING (40+)

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- Software Architecture & Domain-Driven Design
- Microservices Architecture & Distributed Systems
- Apache Kafka & Event-Driven Systems
- C# Advanced Specialist
- AWS Services (Lambda, EKS, Aurora, DynamoDB)
- Azure DevOps & Azure Functions
- Docker, Kubernetes & CI/CD Pipelines
- ITIL: Service Improvement
- Software Project Leadership
- IT Team Management
- Kanban & Scrum
- Angular Development
- .NET MAUI

## LANGUAGES

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**Spanish:** Native | **English:** Advanced Professional (C1)

## PORTFOLIO & PROJECTS

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- **Coalegre (coalegre.com)** — Digital tourism platform for Costalegre government; multi-tenant marketplace connecting local businesses with visitors
- **SaveUp Travel (saveuptravel.com)** — AI-powered travel platform with intelligent agent generating personalized offers and custom itineraries
- **JinkJet Lasser (jinkjetlasser.com)** — Multi-supplier product synchronizer for e-commerce using Azure Functions, Storage Accounts, and API Management