

# Sergio Linares Peralta

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## SUMMARY

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Senior Software Engineer / Tech Lead with 12+ years building large-scale production platforms. Currently leading FinOps backend services at Maersk: a scalable, multi-service platform powering invoicing for enterprise logistics customers, processing 1M+ invoice lines a day across 30+ carrier integrations. Day to day I work on event-driven .NET microservices designed for high availability, resilience and continuous evolution, end-to-end observability with OpenTelemetry, and Kubernetes on AKS. Direct ownership of customer-facing systems and technical decisions aligned with business needs.

## TECH FOCUS

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.NET 8/10, C#, microservices, event-driven (Azure Service Bus, Kafka, AWS SQS/SNS), DDD / CQRS, Outbox pattern, PostgreSQL, MSSQL, Azure (AKS), Docker, OpenTelemetry, Grafana stack (Loki, Prometheus, Tempo), CI/CD, Quartz, React, TypeScript.

AI tooling: Claude Code, GitHub Copilot.

## PROFESSIONAL EXPERIENCE

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### Senior Software Engineer, Maersk · Nov 2021 to Present

**FinOps platform · Mar 2024 to Present** Tech-lead on a scalable, multi-service invoicing platform across logistics and e-commerce, processing 1M+ invoice lines a day across 30+ carrier integrations. High-availability, multi-tenant production system in continuous evolution, with technical decisions aligned with business needs.

- Designed and shipped event-driven .NET microservices on AKS, using Azure Service Bus + Kafka with the Outbox pattern and eventual consistency. Architected for scalability, resilience and continuous evolution.
- Lead developer and architect of **CarrierCostProcessor**: integrated 30+ carriers feeding 1M+ invoice lines a day. FTP-based ingestion of carrier cost files, builder-pattern onboarding for new carriers (with AI-assisted integrations), Outbox producing normalised events to Kafka under Schema Registry contracts, and automated E2E + integration test scaffolding generated per carrier so each integration ships with its own safety net.
- Lead developer and architect of **Crucible**: a .NET 10 generic event-processing platform for FinOps. Cut end-to-end processing from 3 hours to 30 minutes and, with the added visibility and monitoring, reduced support tickets by 50%. Layered architecture (Domain / Application / Infrastructure / Pipelines / Api / Worker), CQRS via mediator, EF Core code-first migrations, OpenTelemetry, Testcontainers-backed E2E tests. First pipeline consumes CCP feeds via Kafka and writes invoice-line records into the shared FinOps DB, with per-field enrichment attribution, three-dimensional event status (processing / quality / business outcome) and full event lineage. Built generic enough to absorb future revenue and reconciliation pipelines.
- Owned end-to-end observability with the OpenTelemetry collector, Grafana (Loki, Prometheus, Tempo) and webhook-driven alerts to GoAlert and Microsoft Teams.
- Drove a high quality bar with unit, integration and E2E tests across critical billing paths.

- Led the new microservice for invoice-PDF generation (backend to object storage), customer-facing.
- Modernised CI/CD pipelines and led the migration to Kubernetes (AKS).
- Active in product and tech-evolution decisions: framework upgrades, infra direction, on-call processes, continuous improvement.

#### **TrackShipment team · Sep 2023 to Mar 2024**

- Onboarded a major logistics customer onto our tracking and shipping-label APIs, improving their operational efficiency.
- Set up the OpenTelemetry stack with structured logs, metrics and traces, including Loki / Prometheus / Tempo queries and webhook alerts.
- Led the migration from Azure Web Apps to AKS using company-level tooling.
- Drove .NET version upgrades across multiple services.

#### **Internal logistics & Shopify shipping app · Nov 2021 to Sep 2023**

- Lead developer on a Shopify app (Laravel + React) for shipping labels, with OAuth and Maersk internal API integration.
- Led the PHP to .NET, on-prem to Azure migration of the internal logistics APIs.

#### **Senior Web Developer, Babel Sistemas de Información · Feb 2019 to Nov 2021**

- **E-Quironsalud** (Prestashop / Symfony): PHP and JS development, API integrations.
- **Cosentino B2B/B2C** (WordPress): modular, customisable components.
- **Salud Savia**: custom REST APIs, Elasticsearch back-end, custom WordPress plugins, eCommerce integration.

#### **Web Developer, Voilá Productora · 2013 to 2019**

PHP, JavaScript, jQuery, NodeJS, Unity (.NET). Proprietary CMS platforms, a Google Maps routing app, multimedia content managers and a VR interactive game.

#### **SIDE PROJECT, DDD / SAAS SHOWCASE**

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**shipping-orchestrator** · <https://github.com/sergiolinarescodes/shipping-orchestrator>

Open-source .NET 10 modular monolith showing how I approach SaaS architecture: Domain-Driven Design, CQRS read-side split (Operations vs Customer), Wolverine over AWS SQS + SNS for messaging and sagas, PostgreSQL (Aurora-compatible), connector pattern for Shopify, WooCommerce and PostNL, three deployable hosts ( `PublicApi` , `PrivateApi` , `Worker` ), full OpenTelemetry. Built as the architecture I would propose for a multi-tenant SaaS shipping platform.

#### **EDUCATION**

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Higher Degree in Web Application Development, IES Zaidín-Vergeles · 2011 to 2013

#### **LANGUAGES**

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Spanish (native), English (professional, day-to-day at Maersk in a multicultural team).