Roberto Cervantes

Solutions Architect | AI-Enabled Solutions & Digital Transformation | Enterprise Integration

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Detailed project case studies, architecture documentation, and code are available on the portfolio and GitHub above.

Professional Summary

Solutions Architect with a multidisciplinary background in systems engineering, business administration, and supply chain operations. Focused on translating business requirements and operational constraints into scalable technology architectures, combining process automation, system integration, and AI-enabled solutions. Experienced in modernizing manual and legacy-dependent workflows into governed, production-ready digital solutions, evaluating technology options against feasibility, risk, cost, and business value. Operates across both an internal enterprise setting and independent solutions consulting.

Areas of Expertise

Solution Architecture & Design · AI / LLM Integration · AI-Enabled Solutions & Automation · Digital Transformation · Business & Technology Alignment · Legacy System Integration & Modernization · API Architecture & Documentation · Requirements Analysis & Technology Evaluation · Process Automation & Optimization · Software Development (.NET, Python, FastAPI, React/TypeScript)

Soft Skills

Technical Leadership · Stakeholder Communication · Business-Technology Translation · Cross-Functional Collaboration · Architecture Decision-Making · Adaptability and Continuous Learning

Professional Experience

Internal Solutions Architect · TechShop International S.A. · 2024 – Present

- Develop custom modules integrated with legacy ERP systems to automate and digitize manual operational, purchasing, and administrative processes.
- Design cross-departmental data flows connecting existing systems and modules to ensure information continuity from origin to final business destination.
- Lead digital transformation initiatives converting paper-based workflows to structured digital processes, incorporating AI-assisted document review and intelligent search.
- Integrate AI capabilities into managerial workflows to support data-driven decision-making based on operational data consolidated from legacy systems.

Founder & Solutions Architect · Scaling Intelligence · 2026 – Present

- Founded Scaling Intelligence as the formal practice consolidating independent consulting work developed since 2021.
- Architected and developed a procurement intelligence platform integrating legacy ERP data with modern digital workflows, reducing purchase-order processing from 8 hours to 15 minutes, operational analysis from 4 hours to 1 minute, follow-up activities from 6 hours to 1 hour, and meeting preparation from 3 hours to 30 minutes.

- Designed an AI-enabled email tracking solution using FastAPI, React/TypeScript, MySQL, and local LLM inference, implementing orchestration, business rules, and automated classification to route procurement communications.

Independent Solutions Architect · Technology Consultant · 2021 – 2025

- Analyzed business needs and designed technology solutions adapted to each client's operational context.
- Developed solution architectures focused on automation and modernization, expanding into AI adoption and integration since 2025.
- Evaluated technology options based on feasibility, cost, scalability, risk, and business value.

Business & Operations Background · Supply Chain & Logistics · 2006 – 2020

- Extensive experience across supply chain, logistics, international transportation, warehousing, and customs operations, providing operational domain knowledge that informs current architecture and process-transformation work.

Education

- Bachelor's Degree in Computer Systems Engineering — Universidad Fidélitas (San José), Oct. 2026
- Specialization in Cybersecurity — Universidad Fidélitas (San José), Dec. 2022
- Technician in Networks and Communications (Cisco) — Universidad de Costa Rica (San José), Dec. 2020
- Bachelor's in Business Administration — Universidad Braulio Carrillo (San José), Dec. 2014

Certifications

- Sales Techniques Course — ISEIE Innovation School (Valencia, Spain), Oct. 2026
- Python Programming for Application Development — Universidad de Costa Rica (San José), Dec. 2022
- Six Sigma Yellow Belt Certification — 6SigmaStudy (Virtual), Sep. 2022
- Fundamentals of Scrum Certification — ScrumStudy (Virtual), Sep. 2022
- Internal Auditor ISO 9001 — INTECO (San José), Apr. 2022

Languages

- English: B2+ (Intensa Institute)
- Spanish: Native