

Iván de Jesús Díaz Navarro

Data, BI & Automation Consultant

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Profile

Data, BI & Automation Consultant. Ten years managing operational data in government banking and tourism, and since 2025 building and running production systems for real clients: multichannel inventory, offline-first applications, sales agents powered by local AI, multi-tenant B2B platforms and BI dashboards. I run all of my own infrastructure: around 60 containers on a self-hosted server, zero open ports and publishing over an encrypted tunnel, with a documented backup, verification and rollback discipline on every project. I build using an AI-assisted engineering method with separated roles —planning, building and verification— and automated gates that block any release that has not passed its checks. Data analyst grounded in Python, SQL and visualization. English C1.

Experience

Data, BI & Automation Consultant

Independent — San Cristóbal de Las Casas, Chiapas, Mexico

Feb 2025 – present

Data analysis and systems engineering for clients in Mexico and the United States: KPI definition, multi-source data pipelines, monitoring tools in Python, exploratory data analysis (EDA) and production systems that the business owner can operate without me.

- Designed and deployed a multichannel operations hub for retail that consolidated 3 isolated inventories; an append-only ledger with 1,742 movements, 90-day queries in 3.5 ms and 143 automated tests.
- Built an offline-first operations PWA on event sourcing, validated with a deterministic replay of 3,536 real events.
- Developed WhatsApp sales agents running on 100% local AI (Ollama, pgvector, hybrid search), ported to a second business through a portability guide I wrote.
- Built a quoting tool with a public client-facing link, with runtime verification that margins and costs are never leaked.
- Designed a multi-tenant B2B platform with database-level data isolation (RLS) and automated no-leak tests.
- Delivered SIGO, a management system built across 13 phases, with 67 automated tests and a public demo.
- Designed and run JoGym, a gym in an installable PWA with QR check-in, in production since August 2026.

Certified Tour Guide

Independent — Chiapas, Mexico

2009 – present

Tourism operations in Chiapas with systematic activity tracking — the domain knowledge that now underpins the systems I build for the sector.

- Kept visitor records and attendance statistics.
- Built my own operational control tools.
- Implemented feedback systems to measure visitor satisfaction.

Government Programs Coordinator

Banco del Bienestar (Mexican government development bank) — Chiapas, Mexico

2013 – 2020

Operational coordination of government programs with direct responsibility for the data: databases of hundreds of thousands of records, control reporting and audit support.

- Managed databases holding hundreds of thousands of beneficiary records.
- Produced reporting for internal and external audits.
- Implemented process improvements that cut delivery times by more than 30%.
- Analysed logistics patterns to anticipate distribution bottlenecks.

Operations Support

Banco del Ahorro Nacional y Servicios Financieros SNC (Mexican national savings bank) — Chiapas, Mexico

2010 – 2013

Operational support focused on data integrity through migration and quality-control processes.

- Executed data migrations between the bank's operational systems.
- Verified and quality-controlled the migrated information.
- Produced daily and weekly operational reporting.

Projects

Published case studies at ivandiazlab.com

- Zero overselling: a multichannel operations hub — ivandiazlab.com/detalle-centro-operaciones-en.html
- The warehouse that tells the truth: offline-first PWA with event sourcing — ivandiazlab.com/detalle-bodega-offline-en.html
- WhatsApp sales agents running on 100% local AI — ivandiazlab.com/detalle-agentes-whatsapp-en.html
- A quoting tool with a public link that never leaks margins — ivandiazlab.com/detalle-cotizador-en.html
- Multi-tenant B2B platform for tourism experiences — ivandiazlab.com/detalle-plataforma-b2b-en.html
- SIGO: management platform for convention bureaus — ivandiazlab.com/detalle-sigo-en.html
- How I work: 60 containers, zero open ports — ivandiazlab.com/como-trabajo-en.html

Skills

- Data analysis: Python, Pandas, NumPy, SQL, Exploratory data analysis (EDA), A/B Testing, Applied statistics
- Business Intelligence and visualization: Tableau, Looker Studio, Power BI, KPI design, Dimensional modelling
- Automation and integration: Google Apps Script, REST APIs, Multi-source data pipelines, Report automation
- Engineering: Node.js, TypeScript, PostgreSQL, Astro, React
- Operations and quality: Docker, Automated testing, Deployment with backup and rollback, Semantic versioning

Education

Data Analysis — Professional Certification

TripleTen

2024 – present

Alternative Tourism — Bachelor's Degree

Universidad Intercultural de Chiapas

2005 – 2009

Certifications

- Introduction to Artificial Intelligence Engineering — ITF and Salesforce Foundation — Apr 2026
- Data Analyst · Business Intelligence & Automation — TripleTen — Sep 2025
- SQL Certificate of Completion — Mimo — Jun 2025
- EC0217.01 Delivery of human capital training courses — CONOCER / SEP (Mexican competency standard) — Jul 2023
- Digital Marketing — Udemy — 2023
- EC0301 Design of human capital training courses — CONOCER / SEP (Mexican competency standard) — Mar 2022
- Customer Service Techniques — Universidad Virtual del Estado de Guanajuato — 2021

Languages

- Spanish: Native
- English: C1 — Advanced