Matías Sandoval

Computer Engineer

Cloud · Data · Software · Automation

PHONE +56 9 6313 5855
EMAIL matiasandovalv@gmail.com
LINKEDIN linkedin.com/in/matisandev
GITHUB github.com/Matisandev
PORTFOLIO www.matisandev.cl

ABOUT ME

Computer Engineer specializing in data solutions and process automation for the public sector. I design data layers and ETL processes on Huawei Cloud, implement processes on BPMS platforms and build reporting in Power BI, coordinating technical teams and business areas.

At SPS Group I have worked for Chile's Ministry of Economy, Ministry of National Defense, Navy and JUNAEB, often on projects in parallel. Highlights include:

- **Economic Data Observatory (ODE):** I designed the data solution on Huawei Cloud that centralizes information from institutions such as SII, Sercotec and DAES for public policy studies on small businesses, and trained more than 20 public officials to run it on their own.
- **Chile Emprende Platform:** I coordinated a team of 4 developers and was responsible for the data that lets small businesses apply for public development programs.
- **Chilean Navy and Ministry of Defense:** BPMS implementation to optimize internal and inspection processes.

My focus is on making information reliable, traceable and available to those who have to make decisions. I want to keep growing in data engineering and cloud computing, on projects with impact in the public or private sector.

Cloud & Data
Huawei Cloud, ETL, data architecture and data availability.

Automation & BI
BPMS implementation and Power BI reporting.

Technical coordination
Bridge between business areas and development teams, using the SCRUM methodology.

Public sector
Ministry of Economy, Ministry of National Defense, Chilean Navy and JUNAEB.

PROFESSIONAL EXPERIENCE

SPS Group

Aug 2024 — Present

Consulting for the public sector, with parallel projects for different clients. Progression from data engineering on Huawei Cloud to BPMS implementation and technical coordination.

Data Management and Operational Support — TNE Project

Jan 2026 — Present

Client: National Board of School Aid and Scholarships (JUNAEB)

Management and validation of information for the operational processes of the National Student Card (TNE), in parallel with the Chilean Navy's Argos project, with time allocated according to each client's priorities.

- Management and review of information for TNE revalidation and replacement processes.
- Record validation and detection of database inconsistencies, ensuring information quality and traceability.
- Preparation and organization of MDB, Excel and CSV files for processing and operational control.
- Control of sequential numbering and organization of processing batches.
- Preparation of reports and summaries to track the processes.

Skills: Data quality, Data validation, Data loading, Excel, Data analysis.

BPMS Developer & Technical Coordinator — Argos Project

Jan 2026 — Present

Client: Chilean Navy – Maritime Police

Implementation and configuration of a world-class BPMS to support the organization's internal processes, focused on the Maritime Police's inspection processes. Project carried out in parallel with JUNAEB's TNE project.

- Design and implementation of the inspection processes, covering the full operational cycle: planning, field execution, recording, control and analysis.
- Modeling of processes, forms, workflows and business rules.
- Coordination of the development team: task assignment, progress validation and implementation consistency.
- Requirements gathering and functional analysis with the operations and management teams.
- Integration of desktop and mobile components for operational recording in the field.

Skills: BPMS, AuraQuantic, Business process management, Requirements gathering, Technical coordination.

BPMS & Power BI Developer

Aug 2025 — Dec 2025

Client: Ministry of National Defense – Undersecretariat

Implementation of a world-class BPMS to optimize and improve the Undersecretariat's internal processes, complemented by management reporting in Power BI. Project carried out in parallel with the Chile Emprende platform.

- Design, implementation and maintenance of BPM processes: modeling of workflows, forms, business rules and advanced configuration.
- Gathering and validating requirements in direct meetings with users and business areas.
- Evolutionary and corrective improvements to existing processes.
- Development of 4 Power BI reports summarizing the project's internal processes.

Skills: BPMS, AuraQuantic, Power BI, SQL Server, Business process management.

Backend Developer & Technical Coordinator — Chile Emprende Platform

Jun 2025 — Dec 2025

Client: Ministry of Economy, Development and Tourism – Smaller Businesses Division

Chile Emprende is the government's official platform that brings together in one place public support, funding and training programs for micro, small and medium-sized businesses, cooperatives and entrepreneurs, with Clave Única authentication.

- Coordination of a team of 4 developers and liaison with the Undersecretariat for requirements gathering.
- Responsible for delivering the public institutions' data that lets small businesses apply for development programs.
- Design of the data model and the personalized program recommendation logic.
- Automation of ETL processes with Huawei Cloud, including scraping flows and API integration.
- Delivery of 6 Power BI dashboards.

Skills: Technical coordination, PostgreSQL, ETL, Huawei Cloud, Data modeling.

Data Engineer — Economic Data Observatory (ODE)

Aug 2024 — Jul 2025

Client: Ministry of Economy, Development and Tourism – Smaller Businesses Division

Implementation of a platform that centralizes the data used for public policy studies on the country's small businesses: the Economic Data Observatory (ODE), also known as the Data Administration System (SAD).

Data solution design (Aug – Dec 2024)

- Design of the ODE's complete data layer on Huawei Cloud.
- Data intake and storage with API Gateway and RDS, automating loads from 6 institutional sources (SII, Sercotec, DAES, among others).
- OBS buckets to receive the source Excel files and store the ETL process logs.
- ETL orchestration in DataArts Studio (DataArts Factory), connecting all the services in the solution.

On-site training at the Ministry (Jan – Jul 2025)

- Trained more than 20 public officials in Huawei Cloud and SQL.
- Taught them to build their own ETL processes and load data from different public institutions, handing over the ODE's operation to the Ministry.

Data Portal

- Integration of ODE data into the Power BI Data Portal.
- Delivered 7 reports and 3 datasets, including 4 Portal reports, one per institution.

Skills: Huawei Cloud, ETL, SQL, Data architecture, Technical training.

Previous experience

Web administrator and marketing strategist — ElPet

May 2024 — Jul 2024

WordPress content updates, SEO and Google Ads campaigns; SKU creation, inventory control and rollout of the Gesnex sales system, including team training.

Technologies: WordPress, SEO, Google Ads, Gesnex.

IT and sales assistant — UltraPC DHC

Mar 2024 — May 2024

Migration to a business database with SQL and technical support for the e-commerce store.

Technologies: SQL.

Sales data analyst — CSBYTE

Jul 2023 — Sep 2023

Collection of sales data and market analysis with Python and SQL, with metrics in Excel.

Technologies: Python, SQL, Excel.

E-commerce and Digital Marketing Administrator — CSBYTE

Sep 2021 — Jun 2023

Management of PrestaShop and WooCommerce stores, advertising audiovisual content and computer consulting.

Technologies: PrestaShop, WooCommerce.

SKILLS AND TECHNOLOGIES

Cloud Computing	Huawei Cloud · RDS · DataArts Studio · DataArts Factory · DataArts Migration · DataLake Insight · OBS · MRS · API Gateway
Data Engineering	ETL · Data Lakes · Data modeling · Data architecture · Ingestion and validation automation · Data security and governance
Databases	PostgreSQL · SQL
Software development	Python · APIs · Web scraping · HTML + CSS · JavaScript · TypeScript · Kotlin + Jetpack Compose · WordPress
Automation	BPMS · AuraQuantic · Modeling of processes, forms and business rules
Business Intelligence	Power BI · Excel · SQL Server
Process management	Requirements analysis · SCRUM · Technical coordination · User training
Other technical skills	PrestaShop · WooCommerce · SEO · Google Ads · Gesnex

EDUCATION

Computer Engineering

2021 — 2024

Instituto Profesional Duoc UC

Degree completed. Software architecture and quality, service integration, database modeling and programming, and IT project management.

Physical Education Teaching (not completed)

2018 — 2020

Universidad Metropolitana de Ciencias de la Educación

A foundation in communication, planning and teamwork that I now apply to user training and to coordination between technical and business areas.

CERTIFICATIONS

International English — upper-intermediate level
Duoc UC
Verify certificate

Software programming
Duoc UC
Verify certificate

Software quality
Duoc UC
Verify certificate

Software architecture
Duoc UC
Verify certificate

IT project analysis and planning
Duoc UC
Verify certificate

IT project management
Duoc UC
Verify certificate

Data model analysis and development
Duoc UC
Verify certificate

Android app development with Kotlin and Jetpack Compose
Udemy
Verify certificate

Python proficiency
Udemy
Verify certificate

WordPress Course 2024
Udemy
Verify certificate

PROJECTS

Economic Data Observatory (ODE)

Data solution on Huawei Cloud that centralizes information from public institutions (SII, Sercotec, Corfo, DAES, Cooperativas) for public policy studies on small businesses, with ETL processes and automated loading APIs. It included training more than 20 Ministry of Economy officials.

Technologies: Huawei Cloud, DataArts Studio, PostgreSQL, API Gateway.

Chile Emprende Platform

The government's official platform bringing together public support, funding and training programs for small businesses, with Clave Única authentication. I coordinated the technical team and designed the data model, the recommendation logic and the ETL processes.

Technologies: PostgreSQL, ETL, Huawei Cloud, Power BI.

chileemprende.gob.cl

Argos Project — Chilean Navy

BPMS implementation for the Maritime Police's inspection processes, from planning and field execution to recording, control and analysis, with desktop and mobile components.

Technologies: BPMS, AuraQuantic, Process management.

BPMS — Ministry of National Defense

BPMS implementation to optimize the Undersecretariat's internal processes, with 4 management reports in Power BI.

Technologies: BPMS, AuraQuantic, Power BI.

ADDITIONAL INFORMATION

Languages	International English — upper-intermediate level (Duoc UC certification)
Public sector	Ministry of Economy, Ministry of National Defense, Chilean Navy and JUNAEB.

Professional reference

> **Marcia Luengo** Project Coordinator
>
> Contact details available on request, as they may not be up to date.