VALENTINA MUÑOZ

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PROFESSIONAL SUMMARY

Full Stack Developer with a strong sense of ownership. I get involved in understanding the business before building and take solutions end to end, from the data model to production. I took on the technical leadership of migrating a Django monolith to React applications with SSO and, on my own initiative, implemented the first CI/CD pipelines for the applications and a shared component library. My experience as a founder and my scientific background give me a business and analytical perspective.

PROFESSIONAL EXPERIENCE

Frontend / Full Stack Developer — Acústica Marina SpA | May 2024 - Present (Full-time)

- Provided technical leadership for the migration of the main module from a Django monolith to an architecture of independent React applications, defining the API contracts and their Swagger documentation together with the backend team.
- Designed and implemented five applications by subdomain, including a centralized login and an admin panel, integrated with Single Sign-On and with data visualizations in Plotly and D3.
- Designed the data model of the Entitlement & Subscription Management system (models, relationships and constraints), implemented by the backend team, enabling tenant management and cross-tenant access according to each client's plan.
- Proposed and created a private library of 27 components with Storybook to standardize the design system.
- Proposed and implemented the first CI/CD pipeline for the frontend applications, with automated deployments to AWS (S3 and CloudFront), unit tests with Vitest and E2E tests with Playwright, and pre-commit and pre-push hooks that validate linting, tests and build before each merge.
- Defined the Content Security Policy (CSP) directives in strict mode, analyzing which resources and origins were actually needed to restrict the policy to the minimum without affecting how the platform works.
- Optimized PostgreSQL queries that were timing out, achieving responses of ~10 seconds for one month of data.
- Redesigned the Django platform interface based on Figma designs, with responsive views, video streaming, metrics dashboards and analytics visualizations in Bokeh (multi-period heat maps and dual-axis time series).
- Built a technical report generation system that integrates platform data with editable Google Docs templates.

Frontend Developer — Guard Hawk | Mar 2025 - Apr 2026 (Freelance)

- Provided technical leadership for the frontend development of a Web3 crowdfunding MVP with international reach, collaborating directly with the client, the backend/blockchain developer and QA, and designing the user experience from scratch with iterative flow validation.
- Defined the frontend architecture from scratch with React, TypeScript, TailwindCSS and React Query: stack, modular structure and conventions for the front office, user dashboard and back office.
- Built the Web3 flows on Polygon Amoy with Wagmi, Viem and WalletConnect: wallet connection, ERC-20 token investments (approve + invest), refunds, withdrawals and governance voting, handling signatures and on-chain confirmation states.
- Implemented on-chain campaign management, including milestone-based fund release, pause and cancellation, and private campaigns through wallet whitelisting.
- Implemented JWT authentication with 2FA, role-based permissions, protected routes and internationalization (i18n) in a responsive and accessible interface.

Full Stack Developer — La Boquilla Ltda | Dec 2025 - Feb 2026 (Freelance)

- Built a full stack commercial platform from scratch with Next.js and Supabase, unifying the web catalog, point of sale, inventory, quotes and administration in a single application.
- Designed the relational data model in PostgreSQL and the application architecture, implementing authentication, file storage and role-based permissions through Row Level Security (RLS).
- Migrated a catalog of ~2,500 products and more than 5 years of sales history from PrestaShop, normalizing the data to the new relational structure and validating inventory consistency after the migration.
- Built a public catalog with Server-Side Rendering (SSR) to optimize SEO.
- Integrated OpenFactura through a REST API to automate the issuing of electronic receipts and invoices, and built automatic PDF quote generation.

Founder — Bigos SpA | Oct 2014 - Aug 2025

- Managed the PrestaShop e-commerce platform end to end: version migrations, theme and override customization, and integration of payments (Mercado Pago, Webpay and Flow), electronic invoicing (OpenFactura), analytics and marketing.
- Created semi-automated processes with SQL and Google Sheets to sync inventory with marketplaces without a public API and to generate sales, inventory and turnover reports for planning purchases according to seasonality.
- Managed the infrastructure (hosting, DNS, SSL, Cloudflare and backups) and optimized performance and SEO through caching, structured data and Search Console.

PERSONAL PROJECTS

- **LoRa Access Control**: Working prototype of a distributed vehicle access control system for a rural gated community with no cellular or WiFi coverage, built with ESP32, LoRa, Next.js and Supabase. It uses a gateway/node architecture that syncs credentials and authorizes openings locally at a distance of ~500 m, with an offline-first approach and event logging. It includes a web interface for generating daily access codes per plot.
- **Pewos**: Multi-tenant web platform for the collaborative management of care for senior pets or pets with medical needs, built end-to-end with React, FastAPI and PostgreSQL. Caregivers share routines, treatments and reminders on shared calendars, with tenant-isolated data and role-based access control. The REST API is documented automatically with OpenAPI/Swagger and deployed on AWS EC2 with Docker, using GitHub Actions and OIDC.
- **Compra Inteligente**: Web application for optimizing supermarket shopping with a fixed budget and variable prices, built with React, TypeScript and Supabase. It updates prices through on-demand scraping and solves product selection as a knapsack problem, prioritizing required items, fresh items and items not yet bought in the monthly cycle. It includes per-cycle inventory and budget management, and loads the generated list into the supermarket cart with one click using a bookmarklet.
- **Management Platform for Rural Plots**: Multi-tenant web platform for managing rural plot communities, currently in use by one community. Each plot manages its members, reviews its fees and outstanding balance, reports payments and takes part in surveys, while the administrator manages payments, expenses, income and plots from a dedicated dashboard. Built with Next.js, Supabase and TypeScript, with data isolated by community and by plot through Row Level Security and role-based access control.

TECH STACK

Frontend:	Next.js, React, TailwindCSS, TypeScript, Bootstrap, CSS3, JavaScript, Material UI, TanStack React Query, Vue.js, Web3 (Wagmi/Viem), Zustand, TanStack Table, Zod, Flowbite
Backend:	Django, Express.js, FastAPI, Node.js, Python, REST API, Swagger
Databases:	PostgreSQL, Supabase, Firebase, MySQL
Data Visualization:	Bokeh, Plotly, D3, Recharts
DevOps & Cloud:	AWS, Docker, Git, GitHub Actions, GitLab CI/CD
UX/UI Design:	Figma, Storybook, Accesibilidad (WCAG)
Mobile:	React Native, SwiftUI
Testing:	Vitest, Playwright
AI:	Claude Code, API Anthropic

EDUCATION

- Computer Science and Informatics Engineering - UNAB (In progress, expected graduation 2027)
- Frontend Developer - Talento Digital SENCE
- Diploma in Web Design and Programming - AIEP de la Universidad Andrés Bello
- Full Stack JS Developer - Desafío Latam
- Master's in Biochemistry - Universidad de Chile
- Biochemistry - Universidad de Chile

COURSES

- n8n + MCP - Automation and Intelligent AI Agents — DevTalles (2026)
- Connected Leadership — Yale University (2026)
- Foundations of Shipping URN — GloNoise (2026)
- Digital Transformation Management — UNAB / ASU (2026)
- AWS Cloud Practitioner Essentials — AWS (2026)
- Test Automation Engineer — Desafío Latam / Globant (2026)
- Introduction to Azure IoT — Microsoft (2025)
- iOS Development — Desafío Latam / Globant (2024)
- Scrum Foundation Professional Certification (SFPC) — CertiProf (2024)

LANGUAGES

- English: B2
- Spanish: Native
- Portuguese: A2