

Juan Villegas

Full Stack Developer · Digital Solutions Architect

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PROFILE

Full Stack Developer and Telematics Engineer. Works end to end on projects that reach real production: understands the business problem, designs the architecture, and builds frontend, backend, and infrastructure. Has shipped production systems in e-commerce, healthcare, mobility, events, and B2B SaaS. Integrates artificial intelligence as one more component of the system, deciding what context it receives and what happens if it fails, not as a black box.

EXPERIENCE

Full Stack Developer · *Policlínica San Javier del Arca*

Remote · Feb 2026 – Present

- Built **System Inbox**, the system that automates the clinic's invoicing: reads invoices in different formats, processes them through a two-step AI pipeline, and translates them into the tax schema required by the e-invoicing provider.
- Added an audit middleware that validates consistency between taxable base, VAT, and totals before issuing, and handled each fiscal series with its own strategy so adding a new series never affects the others.
- Built **Mediexpert**, the medical equipment sales and after-sales system: three role-based dashboards, per-serial equipment tracking with warranty and assigned buyer, and payment validation with proof of payment and explicit business states.
- Both systems run in Docker containers behind Traefik.

STACK TypeScript · Node.js · Express · Next.js · React · MongoDB · DeepSeek · JWT · Docker · Traefik

Full Stack Developer · *PCRacing.pro*

Madrid, Spain · Dec 2024 – Jul 2026

PC hardware and components store with e-commerce on WooCommerce.

- Extended the after-sales platform (Next.js, Prisma, and PostgreSQL, already in production) with two full modules for warranties and returns, including integrity validation and automatic PDF claim generation with a dual QR code.
- Built a Node, Express, and TypeScript microservice that keeps stock, price, and availability in sync with the external supplier and publishes it to WooCommerce, with staggered scheduled jobs, a custom pricing engine (margin by range plus VAT by country), and AI-generated product descriptions. Runs unattended and reports via Telegram.
- Designed the shipping system with a Factory pattern and a common carrier interface, built to add new couriers without touching the core, and integrated with the company's internal ERP.
- Set up the Portugal store on WordPress, added support chatbots to both stores and a WhatsApp order-status bot, and put in place server resource monitoring with automated backups to Google Cloud Storage. Fully dockerized.

STACK Next.js · Prisma · PostgreSQL · Node.js · Express.js · TypeScript · MongoDB · WooCommerce · Docker · Google Cloud Storage

Scheduling System Developer · *SAE*

Barquisimeto, Venezuela · Jun 2024 – Oct 2025

Engineering internship.

- Developed the REST API for an academic scheduling system: seven CRUD modules for schedules, cycles, courses, subjects, classrooms, and instructors.
- Implemented the algorithm that builds schedules respecting institutional constraints, instructor availability, and weekly load, with no overlaps, plus Excel and PDF reports per section.

STACK Next.js · JavaScript · MongoDB · ExcelJS

FEATURED PROJECTS

Audit System (AuditaPro) — *Guatemala · sole developer of the original product*

Multi-tenant SaaS for accounting audit management. Imports financial statements from Excel, automatically injects audit marks into generated documents, and organizes teams with role hierarchy and per-audit time tracking.

Python · Django · Docker Compose · Traefik

SpaceShare — *El Salvador and Panama*

Storage space rental marketplace: catalog with filters and pagination, online booking and card payment verified with 3D Secure, and a backend built on a portable hexagonal architecture. Most-requested data stays in a local copy so the app keeps working on unstable connections.

Next.js · NestJS · TypeScript · MongoDB · IndexedDB · Docker · Traefik

Vamos CRM — *Venezuela*

WhatsApp customer service CRM for a ride-sharing platform, with human agents and an AI sharing the same inbox. Hexagonal architecture with Feature-Sliced Design and a queue serialized by phone number to acknowledge Meta's webhook instantly without losing or reordering messages.

NestJS · React · Vite · MySQL · Socket.io · BullMQ · Redis

KissthePlan — *Spain*

Wedding planning SaaS: guests, budget, vendors, an interactive seating chart, and day-of timeline, with shared access for up to three people on the same wedding. A mapping layer keeps the MongoDB schema separate from what the frontend consumes.

Next.js · NestJS · TypeScript · MongoDB

Synapse — *internal AI tool*

Shared memory agent for development teams: centralizes decisions already made and gives every code assistant the project's real context, with two independent permission layers and trust levels per channel.

Node.js · LLM · Docker · Git-based sync

Multi-Branch Purchasing Management (Grupoinolite) — *Mexico*

Purchasing MVP for a hardware store, with a custom offline-first sync engine to keep working without a stable connection at the branch and sync on reconnect. Includes production server hardening: VPN, restrictive firewall, and brute-force protection.

NestJS · MongoDB · Next.js · Docker · Traefik · WireGuard

Personal Portfolio (jevy.dev) + Jevy — *personal project, in production*

Multi-language Next.js site with content that translates itself on save, SEO optimization in four languages, and a custom admin panel, no third-party CMS, on self-hosted infrastructure. Includes Jevy, a production conversational agent that interviews visitors, matches them against the project catalog, and books meetings on Google Calendar.

Next.js · TypeScript · MongoDB · i18next · n8n · Docker · Traefik · Cloudflare R2

TECHNICAL SKILLS

LANGUAGES	JavaScript, TypeScript, Python, PHP
FRONTEND	Next.js, React, React Native (Expo), Tailwind CSS, shadcn/ui, MUI
BACKEND	Node.js, NestJS, Express.js, Django, Laravel, Prisma
DATABASES	MongoDB, PostgreSQL, MySQL, SQLite, Firebase
INFRA / DEVOPS	Docker, Docker Compose, Traefik, Nginx, Linux, WireGuard, Google Cloud Storage, Git · GitHub · GitLab
AI & AUTOMATION	LLMs integrated into production pipelines, function calling, conversational and document-processing agents, n8n, Telegram and WhatsApp bots

NETWORKING CCNA fundamentals (routing, switching, wireless, security), VoIP with FreePBX and IAX

SPOKEN LANGUAGES Spanish (native), English (B1–B2)

EDUCATION

Telematics Engineering · *UCLA*

Barquisimeto, Venezuela · 2018 – 2025

Universidad Centroccidental Lisandro Alvarado. Completed degree, focused on networking, programming, and telecommunications services.

- **Academic projects:** backend development lead for an ISP management platform (team of four, Scrum); self-managed VoIP PBX system with FreePBX and Docker, with IAX interconnection between countries; academic events web platform with a payment gateway.

CERTIFICATIONS

- **CCNA v7**, three modules (Introduction to Networks; Switching, Routing and Wireless Essentials; Enterprise Networking, Security and Automation) — Cisco Networking Academy, 2022–2023.
- **JavaScript Masterclass: Beginner to Expert** — Udemy, 2025.
- **SQL: Databases from 0 to Advanced** (Udemy, 2021) · **Complete Web Development** with PHP and MySQL (Udemy, 2023) · **Introduction to AWS** (Udemy, 2021) · **Responsive Web Design** (freeCodeCamp, 2020) · **Programming Fundamentals** (CADI, 2020).