

NICOLAS VILLALONGA

SENIOR FULL STACK DEVELOPER

nicovillalonga90@gmail.com | Mar del Plata, Argentina (Remote) | [linkedin.com/in/nicolas-villalonga](https://www.linkedin.com/in/nicolas-villalonga) | nicolas-villalonga.dev

SUMMARY

Senior Full Stack Developer with **10+ years** building and shipping scalable web applications across front and back end. Strong in **React, Vue, TypeScript, Node.js and PostgreSQL**, with hands-on experience re-architecting data layers, designing layered and event-driven backends, and integrating **LLM-powered features**. Comfortable owning work end to end in small teams.

SKILLS

Languages: JavaScript, TypeScript, HTML5, CSS3 / SASS, SQL

Frontend: React, Vue 3, TanStack Query, shadcn, Storybook

Backend: Node.js, NestJS, Laravel, REST & GraphQL APIs, Microservices, WebSockets, SSE

AI: LLM feature integration, streaming responses

Databases: PostgreSQL, MySQL, MongoDB

Testing: Jest, Vitest, React Testing Library, Supertest, Chromatic

Cloud & DevOps: AWS, Docker, GitHub Actions, CI/CD, Git, Agile / Scrum, Web3

EXPERIENCE

MarketScale — Full Stack Developer CONTRACT

Jul 2025 – Present

Vue 3 · TypeScript · TanStack Query · shadcn · Laravel · SSE

- **Covert (AI assistant):** Built a chat feature on an existing LLM agent — custom response widgets plus a "channel brain" feeding user data to the agent for context — streamed to the UI in real time over SSE and event broadcasting.
- **Frontend data layer:** Re-architected around TanStack Query with typed resource modules, replacing duplicated axios calls; added caching, list virtualization and feed persistence. Cut cold-mount API calls from 8–9 to 2–3, halved the dashboard JS bundle (~5.1 MB → ~2.5 MB) and lifted the Lighthouse performance score 55 → 90+ (LCP 17.5s → <2.5s).
- **Backend architecture (Laravel):** Introduced a layered architecture — slim controllers delegating to services and repositories — replacing controller-heavy legacy code, and rebuilt feed data onto dedicated endpoints to remove Inertia overhead and N+1 queries.
- **Design system:** Drove the migration to shadcn over a legacy Bootstrap UI — engineering a careful config to let the two incompatible systems coexist during rollout. Now the de-facto standard: all new features and restyles ship on shadcn components.

Making Sense — Backend Developer CONTRACT

May 2025 – Dec 2025

NestJS · Node.js · Microservices · EDI · REST · PostgreSQL

- **SECO (logistics automation, POC):** Replaced a manual, CLI-style legacy workflow with an automated web app. Built backend services to track and assign loads to carriers — an Event service for shipment milestones, a Notification service for email alerts, a Receiver service parsing inbound EDI files into automated actions, and a BFF aggregating data across 10+ services. Delivered the first of three planned app processes end to end.

Ingenia — Backend Developer

Aug 2024 – May 2025

NestJS · Microservices · WebSockets · PostgreSQL · Apache Flink (CDC)

- **Advertmind (legacy modernization, POC):** Rebuilt a legacy C# desktop ERP as a web app for a multi-agency group, targeting one agency first with its many clients and users. Designed the microservices architecture (10 services) and a reusable NestJS service template, working with the solution architect on the data model; delivered the proof-of-concept that won client buy-in for a gradual, run-both-systems migration.
- **Real-time collaboration:** Built WebSocket-driven real-time features across pages — live ticket editing, drag-and-drop — plus in-app and email notifications. Contributed to a change-data-capture pipeline (Apache Flink) replicating writes bidirectionally for a gradual cutover.

Infinite Objects — Frontend → Full Stack → Lead

Sep 2021 – Jun 2024

React · Node.js · Express · Web3 (MetaMask) · GraphQL · React Native

- Promoted from frontend to full-stack to team lead over 3 years in a 5-person team, shipping across the product suite — including the internal React Native app that tracks orders and flashes video onto the physical devices.
- **Print Your Own:** Rebuilt the core product component — fetching products with their SKU variants and rendering options dynamically to preview the matching UGC video in real time, applying cascade-priority and availability logic per selection — simplifying the purchase flow and UI to lift conversion and retention as part of the broader Shopify migration.
- **Print Your Eth (Web3):** Extended the live preview to NFTs via MetaMask wallet connection, and built the full backend integration to NBA Top Shot's GraphQL API for a dedicated collection.
- **Embeddable web components:** Built framework-agnostic web components letting any client embed the live variant preview on their own site (plain HTML + props) ahead of checkout.

DEPT — Moody's — Backend Developer

Sep 2020 – Sep 2021

Node.js · PostgreSQL · AWS

- **DCP (Data Contribution Portal):** Internal app for form and file uploads with malware scanning and email notifications.
- **UDET (Unified Data Entry Tool):** Unified 4–5 internal apps, each on a different database with inconsistent naming, into one standardized schema — curating records into a central data lake.

Bons — Full Stack Developer

Nov 2019 – Sep 2020

Vue · React · Express · GraphQL · MongoDB · AWS

- **Checkset:** Owned the app end to end from inception through mid-development (until a second dev joined) — set up AWS infrastructure, built the Express + GraphQL backend and the Vue frontend, integrating third-party peer reviews into the preconstruction process.
- **Productk:** Built frontend features for a project-management tool (React, GraphQL).

TradeHelm, Inc. — Frontend Developer

Feb 2019 – Nov 2019

Migrated an undocumented legacy JavaScript codebase (CME Group) to a modern React application. React · JavaScript

Extendeal — Full Stack Developer

Oct 2016 – Feb 2019

Built features across a LAMP e-commerce platform connecting customers with suppliers; structured the frontend with a modular architecture and Redux; led a 4-dev team on an internal analytics dashboard. JavaScript · Redux · PHP · MySQL

Globant — Web UI Developer

Dec 2014 – Oct 2016

Built and maintained features for high-traffic enterprise clients — Thomas Cook, United Airlines and Sears — serving large user bases. AngularJS · D3 · JavaScript

EDUCATION

Associate Degree in Software & Information Systems (completed)

UTN — Universidad Tecnológica Nacional · 2011 – 2015

Two-stage program: Tecnicatura Superior en Programación (2011–2013) → Tecnicatura Superior en Sistemas Informáticos (2014–2015)

LANGUAGES

Spanish — Native**English** — Advanced (AICE, SAT)**French** — Basic (DELF A1, A2)