

Nilson Aldair Molina Rengifo

Software Developer (Backend / Full-Stack)

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Professional Summary

Software Developer with 6+ years of experience building, stabilizing, and evolving production backend systems and APIs in business-critical environments. Strong background in backend-heavy and full-stack contexts, working closely with product, frontend, and business stakeholders to deliver reliable, scalable features end to end.

Experienced in owning systems and features from design through production, including architecture decisions, data modeling, performance optimization, and production stabilization. Proven ability to operate effectively in complex codebases, improve legacy systems, and deliver under real operational constraints.

Comfortable taking responsibility in high-impact roles, contributing to technical direction, and maintaining high engineering standards while balancing speed, quality, and business needs.

Professional Experience

Software Engineer (Freelance) - PC Pronto

Jul 2025 - Present

- Designed and delivered backend services supporting an e-commerce platform with real production traffic, focusing on scalability, data consistency, and fault tolerance.
- Built and maintained RESTful APIs integrating Shopify with a centralized backend system using Node.js, AWS, and PostgreSQL.
- Implemented bidirectional data synchronization with SuiteCRM, defining validation rules and conflict-resolution logic across systems.
- Took ownership of features from architecture and implementation through deployment and post-release stabilization.
- Collaborated directly with business stakeholders to translate operational needs into maintainable technical solutions.

Software Consultant - Amaris Consulting

Feb 2025 - Apr 2025

- Contributed to the maintenance and evolution of a large monolithic backend system managing electronic device repair operations across multiple locations.
- Implemented backend features and workflow adjustments using PHP (Yii, Laravel) in business-critical processes.
- Diagnosed and resolved recurring production incidents, improving system stability and operational reliability.
- Improved performance through targeted refactoring and database query optimization (PostgreSQL).
- Actively participated in code reviews and agile ceremonies within a Scrum environment.

Development Engineer - Pacaribe S.A. E.S.P.

Jul 2024 - Jan 2025

- Worked on multiple backend-driven systems that centralized operational, regulatory, and analytical data across the organization, primarily using Laravel, Node.js, Vue.js, PostgreSQL, and Oracle (read-only).
- Contributed to the evolution of a core Laravel/Vue monolithic platform that aggregated data from internal applications and ETL processes, serving as the main operational system for the company.
- Designed and implemented backend improvements for additional Node.js-based services supporting regulatory-driven business logic, including the introduction of structured data models and ORM-based access to improve maintainability and data consistency.
- Improved database performance by identifying slow and non-indexed queries, removing unnecessary data access patterns, and optimizing PostgreSQL queries used by high-traffic workflows.
- Implemented asynchronous processing using Laravel queues, custom commands, and background jobs to handle long-running and data-intensive operations reliably.
- Developed a task planning module within the core system, supporting hierarchical tasks, deadlines, and automated email alerts, improving coordination and operational visibility across teams.
- Took responsibility for solution delivery and quality within sprint cycles, with performance evaluated based on effectiveness, stability, and maintainability of delivered features.
- Provided technical follow-up and operational continuity for an existing .NET-based ETL process during a management transition, ensuring uninterrupted daily execution and issue tracking.

Laravel Developer (Freelance) - FrenziApp

Feb 2024 - Apr 2024

- Owned a Laravel-based REST API powering native Android and iOS applications for a taxi booking platform.

- Refactored backend code to improve clarity, maintainability, and API design consistency.
- Optimized API responses and payload structures, significantly improving response times.
- Introduced Swagger / OpenAPI documentation and implemented unit tests (PHPUnit) for core business logic.

Full-Stack Software Developer (Freelance) - Ink Master Colombia

Aug 2023 - Feb 2024

- Designed and implemented a centralized internal management system using Laravel, Vue.js, and PostgreSQL to support core business operations.
- Developed backend modules for clients, inventory, products, suppliers, and sales management, focusing on data consistency and reliable business workflows.
- Took full technical ownership of the system, from data modeling and backend logic to frontend integration and initial deployment.
- Deployed the system to an AWS-based environment during its initial rollout, ensuring production readiness.
- Centralized previously fragmented operational data into a single platform, improving visibility and coordination across business areas.
- Improved the company's sales and operational processes by providing structured access to customer, inventory, and supplier information.

Full-Stack Software Developer - Solvo Global

Sep 2022 - Jun 2023

- Worked as an embedded engineer for a U.S.-based client, contributing to backend-focused features and system maintenance.
- Implemented and adjusted application logic in collaboration with distributed teams, following client-defined delivery processes.
- Supported production workflows, troubleshooting issues and ensuring operational continuity.
- Worked within a client-driven, outsourced engineering model, adapting to external delivery standards, timelines, and quality expectations.

Professional Experience (Early Career - Consolidated)

Independent Development / Career Transition

Dec 2021 - Aug 2022

- Engaged in independent software development, technical upskilling, and freelance-style problem solving.
- Strengthened backend fundamentals, database design, and API architecture through hands-on projects and self-directed learning.

Software Developer - CLTech, THOMAS MTI, Recaudo Bogotá S.A.S.

Jul 2018 - Nov 2021

- Contributed to backend-driven enterprise systems across public services, healthcare, and workforce management domains.
- Supported monolithic platforms and early RESTful API initiatives, gaining hands-on experience in backend modularization.
- Participated in data migrations, legacy modernization efforts, and internal tooling improvements.
- Built a strong foundation in production environments, data handling, and cross-functional collaboration.

Education

B.Sc. in Systems Engineering and Computer Science *(in progress)*

Universidad Central (CO)

Associate Degree in Analysis and Development of Information Systems

Servicio Nacional de Aprendizaje - SENA

Technical Certificate in Software Programming

Servicio Nacional de Aprendizaje - SENA

Training & Certifications

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| • Application & Service Deployment with Docker | 2023 |
| • Database Construction with MySQL | 2025 |
| • Agile Software Development with Scrum | 2025 |
| • Cybersecurity Fundamentals | 2025 |
| • Python for Backend and Data Processing | 2024 |
| • Unsupervised Machine Learning: K-Means with Python | 2025 |