

Jennifer Intriago

SOFTWARE ENGINEER | BACKEND DEVELOPER | Python • .NET Core • AWS SageMaker • REST APIs • SQL

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Results-driven Software Engineer with over 5 years of experience specializing in backend engineering, scalable software development, and process automation. Expert in designing robust backend architectures and building high-performance REST APIs, with a strong core focus on Python and .NET ecosystems.

Proven track record of transforming complex industrial and commercial requirements into efficient transactional systems that have reduced manual processing times by 60% and slashed operational errors by 30%.

Combines deep software engineering foundations with a Master's in Artificial Intelligence, specializing in the deployment and productionalization of Machine Learning and Computer Vision models within enterprise cloud infrastructures (AWS SageMaker).

SKILLS

- **Programming & Backend Engineering:** Python (FastAPI) · .NET Core · C# · PHP · Laravel · Node.js · REST API Design · Data Structures & Algorithms · Object-Oriented Programming (OOP) · MVC Architecture.
- **Databases & Data Architecture:** SQL Server (Expert) · PostgreSQL · MySQL · Data Modeling (Relational) · ETL Pipelines · Database Normalization · Schema Design · High-Throughput Data Systems.
- **Cloud, DevOps & Automation:** AWS (SageMaker · EC2 · S3) · Microsoft Azure · Docker · Git / GitHub · Process Automation · IoT Sensor Integration · System Deployment.
- **AI & Machine Learning (Specialization):** Machine Learning (ML) · Deep Learning (DL) · Computer Vision · TensorFlow · PyTorch · Scikit-learn · Google Vision AI · Data Analytics. Pandas · NumPy
- **Frontend & Mobile Development:** Angular · React · JavaScript · HTML5 · CSS3 · Ionic Framework · Xamarin · UI/UX Optimization · Responsive Web Design.
- **Methodologies & Soft Skills:** Analytical Thinking · Complex Problem Solving · Software Development Lifecycle (SDLC) · Agile / Scrum · Technical Documentation · Cross-Functional Collaboration.
- **Languages:** Spanish (C2) · English (B2).

PROFESSIONAL EXPERIENCE

Software Solutions Software Backend Engineer | February 2024 – Present

- **Core Stack:** Backend Engineering · Software Engineer · Python · SQL · Machine Learning · REST APIs · Microservices · System Architecture · Data Pipelines · Docker · AWS · Git · Power BI.
- Engineered and architected the **backend** infrastructure for a multivariate anomaly detection system, utilizing **Python** to process high-throughput IoT sensor data (19K+ records) and trigger automated real-time alerts for infrastructure protection.
- Designed and deployed scalable **backend** data extraction engines and automated pipelines, optimizing server-side logic to feed executive business intelligence dashboards and tracking systems.

- Integrated complex machine learning and statistical detection algorithms directly into production **software systems**, ensuring high-performance database communication and minimal API latency.
- Developed and optimized secure **ETL data pipelines** using **Python, Pandas, and NumPy**, transforming raw unstructured inputs into clean, relational database schemas for high-volume enterprise consumption.

TECOPECA

Software Engineer | *March 2023 – February 2024*

- **Core Stack:** Backend Development · .NET Core · C# · ASP.NET · SQL Server · WCF · Google Vision AI · Xamarin · IoT · Agile (Scrum).
- Spearheaded the architecture and full-cycle **backend development** of a critical corporate Logistics Module, managing everything from technical requirements to enterprise system integration using **.NET Core, C#, WCF, and SQL Server**.
- Enhanced and optimized enterprise platform performance across the **ASP.NET frontend framework** and **.NET Core backend API**, driving continuous improvement in overall software quality through advanced debugging.
- Executed mobile app development and AI integration by embedding **Google Vision AI** models into corporate Xamarin applications, automating product code recognition to streamline logistics workflows.
- Built a real-time IoT monitoring service with specialized sensors, integrating **backend** notification services via automated WhatsApp API and Email communication channels.
- Designed and deployed robust reporting modules and data visualization dashboards using **Crystal Reports and Telerik** to transform raw operational data into actionable insights.

FixSystem Diseño Web Profesional

Software Developer | *September 2021 – February 2023*

- **Core Stack:** Software Development · Web Development · Backend Architecture · Laravel · PHP · SQL Server · PostgreSQL · MySQL · SDLC.
- Analyzed complex requirements and engineered a comprehensive industrial module for a tuna processing factory using **Laravel, PHP, and SQL Server**, delivering advanced **backend** capabilities for live tracking and transactional reporting.
- Managed core database structures and inventory algorithms, building a Raw Material Management system with **Laravel and PostgreSQL** to optimize high-volume transactional data.
- Acted as Technical Project Lead for an enterprise Clinic Software project, driving the entire **Software Development Lifecycle (SDLC)** from initial requirements elicitation to system architecture design and code reviews.
- Formulated comprehensive technical software documentation, including data dictionaries, entity-relationship diagrams (ERD), use cases, and administrator deployment manuals.

Sistema Dobby

Frontend Developer | *October 2020 – August 2021*

- **Core Stack:** Frontend Development · Mobile App Development · UI/UX Optimization · Angular · JavaScript · CSS3 · Ionic Framework · PostgreSQL.
- Led **frontend development** initiatives, revitalizing client-facing production web pages using **Angular, JavaScript, and CSS** to maximize user experience (UX) and responsive interface design (UI).
- Re-engineered and optimized the supplier module for the corporate mobile application utilizing the **Ionic framework and PostgreSQL database**, significantly improving cross-platform mobile app functionality.
- Supervised performance optimization, debugging, and systematic code refactoring on core transaction pages, drastically accelerating frontend execution speeds during critical checkout flows.

EDUCATION

Master's Degree in Artificial Intelligence | UNIR - Universidad Internacional de La Rioja

2024 – 2025 * Core Focus: Machine Learning (ML) · Deep Learning (DL) · Computer Vision · Data Engineering & AI Model Productionalization.

Bachelor of Science (B.S.) in Software Engineering (*Ingeniería Informática*) | Universidad Laica Eloy Alfaro de Manabí

2017 – 2022 * Core Focus: Software Development · Systems Architecture · Database Management (DBMS) · Object-Oriented Programming (OOP) · SDLC.

COURSES & CERTIFICATIONS

Advanced University Course: Data Analyst for Artificial Intelligence | Universidad Universitaria Avanzada

- Key Skills: Data Analytics · Python Programming · Statistical Data Analysis · Data Modeling for AI Systems.

Foundations of Databases | Tech Education Platform

- Key Skills: Database Management Systems (DBMS) · SQL · Relational Database Design · Data Structuring.

Python Programming | Tech Education Platform

- Key Skills: Python Development · Object-Oriented Programming (OOP) · Scripting · Data Automation.

Frontend Developer | Tech Education Platform

- Key Skills: Frontend Engineering · Web Development · HTML5 · CSS3 · Responsive Web Design.

Practical Frontend Developer | Tech Education Platform

- Key Skills: JavaScript · UI/UX Optimization · Frontend Frameworks · Component-Based Architecture

REFERENCES AVAILABLE UPON REQUEST