

Francisco Riquelme

Paraguay (Available for Remote Worldwide)

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Software Engineer with 5 years of experience specializing in scalable web applications and **AI-driven architectures**. Proven track record in the **HealthTech** sector, architecting high-impact solutions using **Laravel, Vue 3, and JAVA**. Expert in integrating **Generative AI (Gemini)** to automate complex clinical workflows, successfully reducing operational workloads by up to **60%** and optimizing response times to under 10 seconds.

Highly skilled in collaborating with **international teams** to deliver clean, maintainable code in agile environments. Currently advancing technical depth through thesis research on **Zero-Knowledge Proofs (ZKP)** and **Blockchain-based solutions**, demonstrating a commitment to emerging technologies and sophisticated problem-solving.

AREAS OF KNOWLEDGE

- PHP, Java, JavaScript
- Laravel, Vue, Angular, Java EE
- Docker
- Railway
- Python
- Experience with international teams
- PostgreSQL, MySQL
- Agile Methodologies, Scrum

INTERESTS

- Programming and engineering
- BlockChain

PROFESSIONAL EXPERIENCE

SOFTWARE ENGINEER @ Elipse.ai (Chile - Remote) | August 2024 – Present

- **Christus Mugerza (Full-Stack Developer):**
 - Engineered Gemini-powered appointment-scheduling flows via WhatsApp, automating interactions that reduced manual booking workload by 40% and optimized response times from minutes to 10 seconds.
 - Implemented real-time alerting systems using Pusher for hospital staff and families, decreasing communication delays by 35% during critical surgical procedures.
 - Tech Stack: PHP, Laravel, Vue 3, MySQL, Gemini AI, Pusher.
- **Achs (Backend Developer):**
 - Architected an LLM-powered FAQ automation system that successfully resolved 70%+ of repetitive inquiries, significantly reducing call-center overhead and improving patient response latency to under 5 seconds.
 - Developed a Gemini-driven scheduling engine that automated 60% of new booking requests, increasing operational efficiency and reducing manual data entry errors by 30%.
 - Tech Stack: PHP, Laravel, MySQL, Gemini AI, LLM, Meta APIs.
- **NOVOCHILE (Full-Stack Developer):**
 - Built a comprehensive scheduling platform to manage hospital staff time blocks, streamlining shift coordination and eliminating redundant administrative tasks.
 - Tech Stack: PHP, Laravel, Vue 3, MySQL.
- **GEM (Full-Stack Developer):**
 - Developed a reproductive health management system (IVF/ICSI), automating 40% of manual tracking tasks and increasing patient follow-up accuracy by 25%.
 - Deployed secure patient history modules and treatment dashboards currently utilized by 100% of the clinical staff.
 - Tech Stack: PHP, Laravel, Vue 3, MySQL.
- **ENEL Chile (Full-Stack Developer):**
 - Architected a high-performance data broker to synchronize GCP Colina and GCP Distribución environments, achieving 90% higher data reliability and eliminating sync inconsistencies.
 - Developed an IVR configuration and reporting engine that transformed latent data into real-time dashboards, increasing operational visibility by 70%.
 - Automated ETL pipelines and robust error-handling protocols, reducing manual technical interventions by 60%.
 - Tech Stack: PHP, Laravel, Vue 3, MySQL, GCP.

SOFTWARE ENGINEER @ KONECTA S.A. (Paraguay - Remote) | February 2022 – August 2024

- **SENACSA (Full-Stack Developer):**
 - Deployed a Camunda-based BPM platform to automate request-management workflows, reducing total processing time by 35% and ensuring full operational traceability.
 - Optimized JavaEE and Angular modules for reporting via TIBCO JasperSoft, supporting a volume of 5000+ monthly service requests.
 - Tech Stack: Java, JavaEE, TypeScript, Angular, Camunda, JasperSoft.
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- *Personal (Full-Stack Developer):*
 - *Integrated advanced validation and normalization services for telecommunications data, improving system reliability and data accuracy by 40%.*
 - *Developed JavaEE components that standardized operational consistency across multiple internal platforms.*
 - *Tech Stack: Java, JavaEE, JavaScript, AngularJS, JasperSoft.*

FULL STACK DEVELOPER @ CODYS S.A (Spain - Remote) | September 2021 – March 2022

- **Project: WhatsApp Automation & Systems Integration (Full-Stack Developer)**
 - *Developed a Python-based automation engine to intercept and process WhatsApp messages, enabling automated media downloads and improving data collection efficiency.*
 - *Engineered backend services using PHP (CodeIgniter) and Node.js to manage high-volume messaging data and ensure seamless system synchronization.*
 - *Optimized legacy PHP modules to improve application performance and reduce server response times for remote users in Spain.*

EDUCATION

COMPUTER SCIENCE ENGINEER @ NATIONAL UNIVERSITY OF ASUNCIÓN - Degree - 2025

ENGLISH LANGUAGE PROGRAM @ PARAGUAYAN AMERICAN CULTURAL CENTER - Degree- 2023