

# Misael Paredes

## Senior Software Engineer

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## Profile

Technical Lead & Senior Backend Architect with 15 years of experience driving high-transaction architectures and enterprise applications. For the past 4 years, I have pioneered Elixir/Phoenix ecosystems to architect cutting-edge AI solutions, including production-grade RAG pipelines, autonomous agents, and vector databases. This modern stack is anchored by an 11-year foundational track record leading Java-based systems. Expert in the retail sector, I have successfully steered technical teams and engineered core ERP modules (Compiere, GWT, JavaScript) alongside scalable Spring Boot microservices. My leadership bridges corporate-grade robustness with next-gen AI innovation, backed by a proven ability to deliver secure payment infrastructure (Node.js/React) under strict banking standards. Committed to functional programming and elite system design that aligns technology with business evolution.

## Work Experience

### **WOIS - PickMyBrain.com, Tallinn, Estonia (remote from Venezuela)— Backend Software Developer**

DECEMBER, 2022 - Today

Currently responsible for building, managing, adding new features, and bug-fixing high-concurrency microservices using Elixir, Phoenix Framework, and GraphQL to support Wois's mobile and web applications. In this role, I have actively developed and integrated AI solutions, implementing a RAG pipeline with Vector Stores and document embeddings to enable semantic search over knowledge bases, as well as building intelligent AI agents and orchestration tools. This has strengthened my mindset toward clean functional programming, ensuring highly maintainable, readable, and fast codebases.

### **INTELIX SYNERGY, C.A., Valencia— Applications Lead**

JUNE, 2021 - DECEMBER, 2022

In charge of managing the continuity of billing, logistics, inventory and control systems for the client Ferretería Epa de Intelix, as well as monitoring new requests that arise as new needs in the environment. Incident management and support.

**INTELIX SYNERGY, C.A., Valencia— *Technical Lead***

FEBRUARY, 2018 - JUNE, 2021

Leading multidisciplinary teams in charge of developing solutions for multiple clients of the company, with management responsibilities and monitoring of the technical part of the projects.

**Ferreteria EPA C.A., Valencia— *Developer***

MARCH, 2012 - FEBRUARY, 2018

Development in the backend of modules of the "Agil" system, based on Compiere (Java).

**Distribuidora Arizona, San Diego— *Developer***

MARCH, 2011 - MARCH, 2012

Development and maintenance of the company's inventory and billing system, built by the company's systems department and based on Visual Basic 6.

## Skills

**Management / Projects:** Knowledge in SCRUM and Agile Methodology. Analysis of requirements, estimation and planning of developments, leadership of technical teams, GitHub Projects.

**Elixir & Ecosystem:** Phoenix, Ecto, Mox, Absinthe (GraphQL), AMQP, Ex\_Unit, Ex\_Machina, Broadway, Bumblebee.

**AI / LLM Engineering:** RAG (Retrieval-Augmented Generation), AI Agents, Prompt Engineering, Context Injection, Semantic Search, OpenAI API, ChatGPT & Assistants.

**Java:** Java 1.8, Java EE, Spring Boot, JPA, Compiere ERP, GWT, Swing, TDD, Mockito, JUnit.

**JavaScript & Frontend:** Node.js, React.js, JavaScript (ES6+).

**Databases & Vector Stores:** pgvector, Postgres, MySQL, MariaDB, SQL Server, DB2.

**DevOps, Containers & Cloud:** Docker, Kubernetes, AWS (S3, EC2, RDS, SQS), GitHub Actions, CircleCI.

**Data Streaming & Message Brokers:** Kafka, RabbitMQ.

**Version Control & Tools:** GIT, SVN, Mix, Maven, npm.

**OS:** Linux, Mac, Windows.

## Education

**Universidad Tecnológica del Centro, Carabobo — “Ingeniero en Información”**  
(*Software Engineer*)

September, 2006 - December, 2011

**Colegio Teresiano de Guacara, Carabobo—”Bachiller en Administración, mención:**  
*Procesamiento de Datos” (High School Diploma in Data Processing)*

September 2001 - July, 2006

## Courses

**Cisco CCNA 1** - Universidad Tecnológica del Centro Cisco Academy

Finished on Sept, 2016

**Java Associate Programmer**

Finished on Mar, 2015