

Juan Luis Quijano Salazar

Senior AI Engineer · LLMs · RAG · AI Agents · MCP · Full Stack .NET & Python

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SUMMARY

Senior software engineer with 7+ years of experience, specialized in applied AI: LLMs, RAG, AI agents and MCP architectures. I build end-to-end solutions that combine robust software engineering with AI in production: process automation, language-model integration and scalable system design. I also build custom desktop and web software, and maintain and modernize legacy software in Microsoft environments (C#, .NET). Focused on making AI deliver measurable impact.

EXPERIENCE

Senior AI Software Developer — Tierra y Armonía

Mar 2026 – Present

- Designed and implemented RAG pipelines with vector search to automate internal queries.
- Integrated LLMs (GPT-4, Claude, open-source models) into real business workflows.
- Built AI agents and automations with LangChain and MCP architectures.
- Built backend APIs and services in .NET / C# and Python to expose AI capabilities.
- Prompt optimization and model fine-tuning for client-specific use cases.
- Worked directly with business teams to identify AI automation opportunities.

Stack: Python · .NET · Node.js · TypeScript · LangChain · OpenAI API · Azure · SQL Server · MongoDB · Docker

Software Developer — Tierra y Armonía

Jul 2024 – Feb 2026

- Custom software development, ERP integrations and special-purpose features.
- Website development.

Senior Software Developer · Systems Analyst · Team Lead — TDCon 4.0 (Tecnología Desarrollo y Control Nov 2018 – Jun 2024 4.0)

- SCADA for a paint manufacturing plant: requirements analysis and architecture; ASP.NET web UI with SQL Server; recipe control down to PLCs from SAP manufacturing orders; JWT, web services and five desktop apps with access control.
- Fuel dispatch system: ASP.NET MVC web app with web services, SQL Server database, per-station desktop app with QR scanning, history and consumption charts with Excel/PDF export.
- Water-pump test management: data capture, results and comparisons with Excel/PDF export.
- Process development and systems maintenance; built and maintained SharePoint Server sites.

Trainer Developer — Neubox

May 2018 – Nov 2018

- Built and maintained websites for clients; project documentation.

TECHNICAL SKILLS

AI: LLMs (GPT-4, Claude, open source), RAG and vector search, AI agents, MCP, LangChain, prompt engineering, fine-tuning

Languages: C#, Python, JavaScript, TypeScript, SQL, Java, PHP

Frameworks: .NET / ASP.NET, Node.js, React, Spring Boot, Laravel, Django, Angular

Databases: SQL Server, MySQL, PostgreSQL, MongoDB, Firebase

Cloud & tools: Azure, AWS, Docker, Git, Visual Studio

Industrial: Siemens TIA Portal V18, ICONICS, Node-RED, MQTT, OPC UA, Siemens S7

Architecture: REST APIs, MVC, Web Services

EDUCATION

B.Eng. in Computer Systems Engineering — Instituto Tecnológico Superior Zacatecas Sur · 2010 – 2015

CERTIFICATIONS

Java SE 6 Programmer — Oracle (2012) · DTES-2 — Macmillan Learning (2022) · .NET Developer

LANGUAGES

Spanish: native · English: B1 (CENNI 7)

MORE INFORMATION

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