Hugo Antonio Lozano Flores

Mobile: +1 773-948-0882 | hugo@hlzn.net | https://linkedin.com/in/hugolozano | https://github.com/hlzn |

Professional Summary

A seasoned software developer with over 15 years of experience specializing in the design and delivery of robust, scalable web applications. Expertise in C#/.NET for backend development and modern frontend frameworks like Angular and Vue.js. Proficient in creating data-driven solutions with MS SQL Server and leveraging cloud technologies, including Azure PaaS and Docker. Skilled in applying AI/ML technologies such as Azure OpenAI, LangChain, and local models with Ollama to build intelligent applications. Proven ability to enhance productivity by leveraging automation tools like Power BI and Power Automate.

Technical Skills

Category	Skills
AI / ML	Azure OpenAI, Copilot Studio, LangChain, Ollama, RAG, LoRA, ChromaDB
Languages	C#, VB.NET, JavaScript, TypeScript, Python, SQL, HTML, CSS/SCSS/SASS
.NET & Frameworks	.NET (9, 7, 5, Core), ASP.NET (MVC, Web API, Web Forms), .NET Framework (4.x, 3.x), Entity Framework, Dapper, LINQ, WCF
Frontend	Angular (8, 5, JS), Vue.js, Blazor, React, jQuery, Bootstrap, Bulma
Databases	MS SQL Server (2016+), PostgreSQL/PGVector, ChromaDB, RavenDB
Cloud & DevOps	Azure (PaaS, Service Bus, Data Factory, Data Lake), Azure DevOps, Docker, Git, TFS
Tools & Platforms	Visual Studio / Code, Rabbit MQ, Microservices, Power BI, Power Automate, SharePoint
Methodologies	Agile/Scrum
Architectures	Microservices, Monolith

Professional Experience

AI Architect & Sr. Software Developer | OTSI, Overland Park, KS
Aug 2024 - Present
- Architected and developed custom Microsoft Copilot agents to interface with Azure DevOps and SharePoint, using Http Connectors and generative models on Azure OpenAI for data extraction and parsing.
- Designed a context-provider application to digest PowerPoint files, extract information using SLM models (Llama3.2, Deepseek, Mistral), and structure the data for ingestion by Copilot Studio.
- Developed a proof-of-concept .NET Azure Function to handle user queries via a REST API, utilizing both LoRA fine-tuned models and a RAG approach with LangChain and ChromaDB.
- Led training sessions for clients on Blazor architecture and development, covering .NET 9, C#, SQL Server, and Entity Framework.

Sr. Fullstack Developer | CT Judicial Branch, Glastonbury, CT
Dec 2022 - Jun 2024
- Enhanced the CDCS platform (VB.NET Web Forms, .NET 4.5) to provide social workers with up-to-date judicial case information, improving data retrieval efficiency.
- Developed the AMS platform using Blazor and .NET 7, providing financial oversight tools for contract amendments.
- Implemented the Repository Pattern with Dapper for high-performance, type-safe data access to SQL Server, optimizing complex queries and data loading.
- Integrated complex business logic to comply with legal rules, improving system performance and reducing data entry errors.

Sr. Fullstack Developer | Schwab, Dallas, TX
Nov 2021 - Dec 2022
- Developed features for two core systems: an Angular 9/Material UI portal for client data access and an ASP.NET Core 6 Web API (EPS) for backend workflow automation.
- Implemented background services for business-critical automation and data synchronization, following Clean Architecture principles.
- Utilized a combination of Dapper for high-performance queries and Entity Framework for structured data modeling within the backend services.

Sr. Fullstack Developer | Arriva, Scottsdale, AZ
Feb 2020 - Jun 2022

- Developed new functionalities for a .NET Core 5 backend and an Angular 8 frontend for the "Save On Resorts" vacation planning platform.
- Maintained and modernized legacy ASP.NET 4.x web forms, replacing jQuery dependencies with vanilla JavaScript and ES6.
- Built and published new application features using ASP.NET MVC 5 and Razor, integrated with the Episerver platform and a microservices backend using Rabbit MQ.

Lead Full Stack Developer | Mexico Tower Partners, Mexico
Feb 2015 - Aug 2019
- Led the development of a custom solutions platform (Sirius) including an ASP.NET web forms application and a new Angular 5 application with a .NET Core 2.0 Web API backend.
- Created automations with Power Automate and custom .NET APIs to validate data against government endpoints, reducing costs.
- Developed custom reports using SQL Server Reporting Services (SSRS) and Power BI connected to data warehouses for financial and asset analysis.

Previous Experience

- **Sr. .Net/Sharepoint Developer | FEMSA, Mexico** (Apr 2014 - Jan 2015)
- **Sr. .Net Developer | Toptal, USA** (Jan 2013 - Mar 2014)
- **Lead Sharepoint/.Net Developer | USI, Atlanta, GA** (Mar 2011 - Dec 2013)
- **.Net Developer | Hildebrando, Monterrey, Mexico** (Feb 2010 - Mar 2011)
- **.Net Developer | Softtek, Monterrey, Mexico** (Jan 2006 - Feb 2010)

Education

Bachelor's in Engineering and Software Development
Universidad del Norte, Monterrey, Mexico
Note: Will require TN visa sponsorship.