

Lenin Gilberto Osorio Martinez

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Summary

Full-Stack Software Engineer specialized in the .NET ecosystem, scalable backend systems and geospatial applications. Experienced in building and maintaining production-grade software including REST APIs, mobile applications and business platforms for both public and private sector organizations.

Strong background in clean architecture, performance optimization, authentication/authorization and database design. Comfortable working with legacy modernization as well as new system development.

Proactive and self-taught developer with experience collaborating on real-world operational systems, delivering reliable solutions and supporting critical business workflows in distributed environments.

Education

Universidad Nacional Casimiro Sotelo Montenegro, Information Systems Engineering – Managua, NI 2023 – present

- Working on the optimization of autonomous vehicles in urban environments

UNAN-León, Information Systems Engineering – León, NI Feb 2012 – Mar 2018

Experience

Systems Project Specialist, ENACAL – Managua, NI July 2024 – Feb 2026

- Designed and implemented multiple REST APIs in .NET 8 and .NET 9 for different operational systems:
 - Mobile services (customer registration & cadastral survey)
 - Indicators and analytics system
 - Environmental & social project management platform
 - Physical vs Financial project tracking services
- Implemented authentication and security using JWT tokens and cookie-based sessions
- Created a reusable advanced repository framework including:
 - Full CRUD operations
 - Transactions & Unit of Work
 - Dynamic filtering and pagination
 - Bulk operations
 - Soft delete with recovery
 - Distributed caching
- Developed frontend applications using React (Vite + TailwindCSS)
- Integrated new services with legacy systems (.NET WebForms & PHP)
- Deployed and maintained backend services and web applications in IIS production environments

System Programmer Analyst, FISE (Emergency Social Investment Fund) – Managua, NI Mar 2019 – June 2024

- Designed an inventory management web application for a warehouse
- Developed IP-APP backend in .NET Core and frontend in Angular
- Built SSCP project tracking system in .NET 5 + React
- Implemented digital signatures in RDLC reports
- Managed GeoServer spatial layers backed by PostgreSQL materialized views
- Administered Active Directory users and roles
- Provided technical support and system optimization

- Summer Intern**, FISE (Emergency Social Investment Fund) – Managua, NI Oct 2018 – Feb 2019
 - Developed modules using .NET Framework MVC architecture
 - Migrated reporting system to RDLC improving report performance
 - Implemented additional features for administrative support subsystem
- Software Development Intern**, TIC Consultores – Managua, NI Sept 2017 – Dec 2017
 - Java development using Adempiere ERP framework
 - Business logic implementation and database connectivity
- IT Intern**, Yota S.A – Managua, NI Sept 2014 – Dec 2014
 - Hardware configuration and technical support
 - Customer assistance

Projects

- AquaSync** Dec 2024 – Feb 2025

Mobile cadastral management system

 - Developed cross-platform mobile application using Flutter for field data collection
 - Integrated with REST API backend for real-time synchronization
 - Implemented offline-first workflow with local data storage
 - Geospatial data capture and visualization
 - Image capture and upload linked to records
 - User authentication and secure session handling
 - Used in operational field environment
- UCSA-GPI (<http://138.117.6.44:5173>)** June 2025
 - Environmental project management platform
 - Designed and implemented REST API using .NET 9
 - Role-based authentication and authorization
 - Production deployment in IIS environment
- Administrative Indicators System (SADI) <http://138.117.6.44:5050/>** Jan 2025 – Mar 2025
 - Designed and implemented REST API using .NET 8
 - Developed responsive frontend interface
 - Real-time data visualization dashboards
 - Role-based authentication and authorization
 - Integrated with institutional operational data sources
 - Production deployment in IIS environment
- R3.chat – AI SaaS Platform (<https://app.rolmo.dev/login>)** 2025

Full-stack SaaS web platform for interacting with AI models, featuring real-time messaging, authentication providers and scalable backend architecture.

 - Built full-stack architecture using React (Vite) + NestJS + PostgreSQL
 - Implemented authentication with Google OAuth and GitHub OAuth
 - Session management using JWT and secure cookies
 - Real-time communication via WebSockets
 - Domain and security configuration using Cloudflare
 - Designed multi-service backend structure for AI interaction
 - Implemented user messaging limits and usage control
 - Production deployment and environment configuration
- VEO – Product Landing Website (<https://veo-next.vercel.app/>)** 2025

Responsive landing website developed for a small business entrepreneurship project to showcase hand-made skincare products and brand identity.

- Built static website using Next.js
- Designed responsive UI focused on product presentation
- Structured content sections (products, testimonials, brand mission)
- Optimized layout for fast loading and SEO-friendly pages
- Deployed on Vercel for public access
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Skills

Backend Development: .NET 5–9, ASP.NET Core, REST APIs, Entity Framework, Authentication (JWT, Cookies), WebSockets, Node.js (NestJS)

Frontend Development: React, Vite, Angular, TailwindCSS, Bootstrap, JavaScript, TypeScript, HTML, CSS

Mobile Development: Flutter, Offline Data Sync, Geospatial Data Handling, Media Upload

Databases: SQL Server, PostgreSQL, MySQL, Stored Procedures, Query Optimization, Transactions

DevOps & Infrastructure: IIS Deployment, Cloudflare, Git, CI/CD basics, API Integration

Languages: Spanish (Native), English (Technical)

References

1. Ing. Oswaldo Blando Torres. Cell: 1+ (941)567-9763
2. Ing. Allan José González. Cel: +505 86197787
3. Ing. Javier Díaz Bonilla. Cell: +505 87702964
4. Ing. Henry Espinoza. Cel: +505 86197787