

STERLING DIAZ

Senior Full Stack .NET Developer

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SUMMARY

Senior Full Stack .NET Developer with 14 years of experience delivering enterprise systems across banking, healthcare, insurance, and payroll/HR collaborating asynchronously across US and LATAM time zones. Proven track record building high-impact platforms — from a healthcare system serving 4 million affiliates to payroll supporting 200+ enterprise clients. Strong backend core in C#, ASP.NET Core, and EF Core (.NET 10) paired with production experience in React and Angular. Demonstrates end-to-end product ownership: currently developing NursingCare, a greenfield healthcare management platform spanning a public facing web app, admin portal, and React Native mobile app — designed solo from clean architecture foundations to production deployment. Consistently delivers tools that eliminate manual work at scale: an automated SQL-to-C# converter (90% effort reduction, compressing a 5-year project to 2 years), an AI-powered incident resolution system (70% MTTR reduction, 200+ engineering hours saved monthly), and an offline-first mobile platform (35% sales productivity increase). Available for remote roles with US-based companies.

TECHNICAL SKILLS

Backend Development

Languages: C#, Java

.NET: ASP.NET, .NET Framework 3.5+, .NET Core / .NET 5–10

Data Access: Entity Framework, EF Core

APIs: RESTful APIs (JSON), SOAP Web Services (XML)

Security: JWT, OAuth 2.0, RBAC

Frontend Development

Languages: HTML, CSS, JavaScript, TypeScript

Frameworks: React, Angular, Vue

Mobile: React Native, Android

UI: Bootstrap, Material UI, Tailwind CSS

Architecture & Design

Architectures: N-tier, Vertical Slice, MVC, Modular Monolith, Microservices

Patterns: Repository, Unit of Work, CQRS, Mediator, Dependency Injection

Principles: SOLID, KISS, DRY, Clean Architecture, DDD

Databases

Relational: SQL Server, Oracle, MySQL, SQLite | **NoSQL:** Firebase

DevOps & Infrastructure

CI/CD: Git, GitHub Actions, Azure DevOps | **Containers:** Docker, Kubernetes

Cloud: Azure (App Service, Functions, Azure SQL, ACS) | **Servers:** IIS, Nginx, Apache, Kestrel

Quality & Testing

Unit Testing: Vitest, NUnit, xUnit | **Integration & E2E testing** (Playwright)

Observability & Developer Tools

Monitoring: AppInsights, Serilog | **Tools:** Postman, Chrome DevTools, Bash, PowerShell, npm, yarn, NuGet, Vite, Axios

AI & Automation

Concepts: Prompt Engineering, AI Agents, RAG, Semantic Kernel, Embeddings, MCP, Guardrails

Applications: Code generation, debugging, testing, automation, documentation

Legacy & Ecosystem Familiarity

VB.NET, ADO.NET, WebForms, Windows Forms, jQuery, AJAX, SVN

EXPERIENCE

Sol y Luna | **Full Stack Software Developer — Freelance** | 01/2026 – Present | Remote

Architecture and end-to-end development of a greenfield enterprise platform for an on-demand nursing care and residential care startup, covering the full product surface: RESTful backend API, responsive web application, admin portal, and cross-platform mobile application for iOS and Android.

Main Stack: C#, .NET 10, ASP.NET Core, Entity Framework Core, SQL Server, JWT, Serilog, REST APIs, React 19, TypeScript, Vite, Material UI, React Native, Expo, Axios, React Router, xUnit, Vitest, Docker, Nginx, GitHub Actions, Azure App Service, Azure SQL, Swagger/OpenAPI.

- Architected and built the complete NursingCare platform from scratch using clean architecture and DDD principles across four delivery surfaces — a .NET 10 backend API, a React 19 web application, a full admin portal with role-based access, and a cross-platform React Native / Expo mobile app supporting iOS and Android.
- Designed and implemented the core care operations domain — covering the full care request lifecycle from intake to fulfillment, nurse scheduling and availability, client profiles, and service catalog management — as the foundational business layer shared across web, admin, and mobile surfaces.
- Designed and implemented financial modules covering payment workflow, payroll calculation foundations, expense tracking, banking information management, and financial reporting — with audit-safe transaction logging to ensure data integrity and traceability across all financial operations.
- Built a secure authentication and authorization layer using JWT tokens and role-based access control (RBAC), covering multi-role user registration, session management, and protected endpoints across web and mobile clients.
- Configured and implemented end-to-end CI/CD pipelines using Docker and GitHub Actions, targeting Azure App Service, Azure SQL and Azure Kubernetes Service(AKS), enabling automated build, test, and deployment workflows—reducing manual deployment effort by ~80% while establishing a consistent, repeatable release process across environments for an evolving product.
- Implemented structured logging with Serilog and centralized error handling across the API, providing full observability into request traces, exceptions, and audit events in a production Azure environment.
- Integrated AI coding agents and prompt-driven workflows throughout the development process — accelerating delivery of complex modules (auth, payroll, audit logging) and reducing required time by 60% to go from design to working implementation across a multi-surface architecture owned by a single developer.

Bupa Global Latinoamerica | **Senior Full Stack Software Developer** | 03/2025 – 11/2025 | Remote

Enhancement and stabilization of a mission-critical enterprise healthcare platform (Amigos+) for a global provider, covering new feature implementation, critical defect resolution, legacy module migration, and AI-powered tooling.

Main Stack: VB.NET, ADO.NET, C#, .NET Core, Entity Framework, SQL Server, REST APIs, React, TypeScript, Bootstrap, Git, Azure DevOps.

- Resolved 200+ critical defects and delivered 15+ new features across the Amigos+ healthcare platform, improving overall system stability by an estimated 35% and reducing production incidents.
- Engineered SmartIncidentSolver, an AI-powered automated incident resolution system that applied RAG-based retrieval and rule-driven AI agent workflows to diagnose and resolve recurring technical issues — replicating expert decision-making with high accuracy, cutting mean time to resolution by 70%, and saving an estimated 200+ engineering hours per month.
- Contributed to the migration of legacy VB.NET modules into modern .NET Core services, improving long-term maintainability and reducing technical debt in a platform serving a global user base.

Insperty / Encora | **Senior NET / Angular Developer** | 06/2022 – 11/2024 | Remote

Modernization of a legacy business-critical payroll and HR system for 200+ enterprise clients, converting complex SQL stored procedures into structured .NET Core C# business services, building new calculation modules, and hardening system reliability.

Main Stack: C#, ASP.NET Core, Entity Framework, SQL Server, REST APIs, Angular, TypeScript, Material UI, xUnit, Git, Azure DevOps.

- Designed and delivered full-stack payroll processing modules using ASP.NET Core and Angular for 200+ enterprise clients, including the Conversion Tool, Validation Engine, and Gross-To-Net Calculation modules — each carried from requirements through production with zero critical regressions.
- Built an automated SQL-to-C# conversion tool that parsed and re-architected 700+ legacy stored procedures into well-structured, testable .NET Core services — compressing the original 5-year modernization roadmap to 2 years and directly accelerating revenue recovery for the company.
- Implemented CQRS and Mediator patterns across backend services, improving separation of responsibilities and long-term scalability for a payroll system with complex business rules across multiple client configurations.
- Refactored legacy business logic into modular, dependency-injected components, enabling unit and integration testing where none existed — increasing test coverage and contributing to early defect detection across stable, high-frequency payroll cycles.
- Collaborated with cross-functional teams in an Agile/Scrum environment across requirements definition, sprint planning, and code reviews, delivering production-ready software on schedule for a US-based client.

ARS Senasa | **Senior Full Stack Web Developer** | 12/2019 – 04/2023 | Remote

End-to-end development of customer-facing digital platforms and APIs for a major state health insurance provider, improving service accessibility and operational efficiency for a user base of over 4 million affiliates.

Main Stack: C#, ASP.NET Core, Entity Framework, SQL Server, .NET Core Web API, React, Vue, JavaScript, Java (Android), Bootstrap, Tailwind, Git, Azure DevOps.

- Developed and maintained enterprise web platforms and RESTful APIs supporting a user base of 4 million+ affiliates, ensuring high availability and reliability for health insurance operations across multiple customer-facing channels.
- Built and deployed Sofia, a conversational chatbot, and a Virtual Affiliate Office portal that digitized customer service workflows — reducing call center volume and in-branch visits by an estimated 40%, deflecting a significant share of routine support requests and freeing agents to handle complex cases.
- Maintained and enhanced the App SeNaSa backend APIs, resolving critical bugs that directly improved application stability and experience for 50,000+ active mobile users.

Banco de Reservas (Banreservas) | **Full Stack Systems Analyst** | 07/2015 – 06/2022 | Hybrid

Full-stack development of internal tools and platforms to automate workflows, centralize institutional knowledge, and improve operational efficiency across one of the Dominican Republic's largest banks.

Main Stack: C#, ASP.NET MVC, .NET Core, Entity Framework, SQL Server, REST APIs, React, JavaScript, ADO.NET, IIS, Active Directory, PowerShell, Git.

- Designed and deployed Decision Maker, a branch audit and compliance platform that replaced a fragmented manual assessment process — automating the evaluation workflow for bank 300+ branches nationwide and eliminating the need for time-consuming manual cross-referencing.
- Engineered the Employee Directory, a web application integrated with Active Directory that became the single authoritative source of information for 7,000+ staff members, replacing the full spectrum of HR information requests including direct calls, Outlook directory lookups, manager-to-HR emails, and paper forms — eliminating an entire category of administrative overhead.
- Automated key administrative and reporting workflows for IT and compliance departments through custom .NET applications and PowerShell scripts, reducing manual workload across teams.
- Maintained and enhanced over a 7-year tenure a portfolio of internal banking applications used by thousands of employees, ensuring system stability and reducing recurring production issues through continuous improvements.

ARS Palic (MAPFRE) | Programmer Analyst | 07/2018 – 07/2019 | On-site

End-to-end development of an institutional web portal and Conciliation Module to digitize and automate medical claims processing for healthcare providers — making ARS Palic the first insurer in the country to offer fully automated public claims submission.

- Developed and deployed the institutional web portal and its core Conciliation Module, enabling 8,000+ healthcare providers to digitally submit, validate, and track payment spreadsheets — replacing a fully manual process and positioning ARS Palic as the first insurance provider in the Dominican Republic to offer automated, web-based medical claims processing and approval digitally.
- Engineered a real-time business validation engine capable of processing 100,000+ records daily, ensuring data accuracy and integrity for financial reconciliations at scale.
- Implemented dynamic, filterable reporting dashboards providing concurrent users with customizable summaries and instant access to processed claims data.

Lemo Consulting Group | Full Stack Mobile Developer | 07/2012 – 08/2015 | Hybrid

Development of an offline-first Android sales application integrated with SAP ERP to automate field sales workflows for 200+ representatives operating in remote areas.

- Developed Lynx Sales, a long-running Android application integrated with the company's SAP ERP system, automating sales, inventory, and billing workflows for field representatives and replacing manual paper-based processes.
- Implemented an offline-first architecture with background data synchronization, enabling 200+ sales representatives to operate without connectivity and sync seamlessly — contributing to 35% increase in sales productivity and 20% revenue growth.
- Built route tracking, client-specific feature flags, and additional modules to support national clients across different operational configurations within the same product.

EDUCATION

Bachelor of Engineering, Systems Engineering — Dominico-Americano University (UNICDA) | 2018 – 2021

Associate Degree, Software Development Technology — Las Américas Institute of Technology (ITLA) | 2009 – 2012

CERTIFICATIONS

- Scrum Fundamentals Certified (SFC) — SCRUMstudy, 2022
- Test of English for International Communication (TOEIC) — ETS, 2021
- Advanced Mobile Development in Android — Altice Group, 2017
- Sun Certified Java Associate (SCJA) — Oracle, 2013