

Rogelio Pérez

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Languages: English (fluent), Spanish (native)

Professional Summary

Software Engineer with 10+ years of experience delivering, modernizing, and stabilizing enterprise applications using C#, .NET, Angular, JavaScript, SQL Server, and Azure Cloud.

Experienced leading greenfield and modernization initiatives, owning frontend and backend architecture decisions, scalability strategies, CI/CD alignment, and environment governance across Agile enterprise environments.

Strong background optimizing enterprise systems through performance tuning, asynchronous programming, cloud-based solutions, reactive frontend architectures, and modernization across monolithic and distributed systems.

Experienced mentoring engineers, leading technical initiatives, and aligning engineering execution with business and operational goals.

Professional Experience

Full Stack Developer - Cloflex | Apr 2026 – Present

- Implemented and validated a Sales Layer to Commercetools integration across local, QA, and Azure environments.
- Migrated the execution model from a VM-style process to Azure Container Apps Jobs.
- Configured Azure resources including Container Apps Jobs, Azure Container Registry, environment variables, secrets, and Log Analytics monitoring.
- Published and validated Docker images through Azure Container Registry for the integration jobs.
- Set up and tested separate Azure jobs for Product Types, Categories, and Product improved the product synchronization flow, including delta behavior, eligibility rules, B2B filtering, and visible/draft status handling.
- Reviewed Sales Layer API payloads and Commercetools product structures to validate field mappings and synchronization behavior.

- Added and validated additional Sales Layer to Commercetools mappings, including SAT code, country of origin, unit of measure, authorization flags, SEO metadata, badges, and product attributes.
- Troubleshoot synchronization issues related to category duplication, CSV formatting, invalid Sales Layer API field selection, product eligibility, image handling, and Commercetools category references.
- Created technical documentation, validation summaries, execution notes, and stakeholder communications for both technical and non-technical teams.
- Coordinated with vendor and internal teams to clarify Azure deployment scope, Sales Layer import behavior, Product Type dependencies, category mappings, and production-readiness gaps.

Lead Consultant – Apex Systems | Mar 2022 – Feb 2026

- Designed and delivered client-facing APIs and new backend endpoints using C# / .NET 8, Angular 19, and SQL, following Layered and Clean Architecture principles to ensure scalability, testability, and long-term maintainability across the application lifecycle.
- Led the end-to-end design and development of a greenfield enterprise application, rebuilt from a legacy system (not a migration), assuming full ownership of technical direction, architectural decisions, and delivery strategy from early design through stabilization phases.
- Owned both front-end and back-end architecture decisions, with proposals formally accepted by the client. Responsibilities included:
 - Defining and enforcing architecture standards and coding guidelines
 - Identifying technical risks early (scope creep, versioning, environment parity, regression risk) and proactively communicating mitigation strategies
 - Establishing branching, versioning, and release practices aligned with CI/CD pipelines to ensure traceability and controlled promotions across environments
 - Defined the core technology stack and roadmap, including:
 - Angular 19 for the frontend
 - .NET 8 Web APIs following Clean Architecture
 - Cloud-based hosting strategy (planned for AWS), including environment separation and promotion strategy (DEV → QA → UAT → PROD)
 - Designed and developed AWS Lambda functions to handle event-driven processing and lightweight backend logic, reducing API load and improving scalability
 - Implemented **serverless workflows using AWS Lambda** integrated with REST APIs and background processing tasks
 - Leveraged **AWS Lambda for asynchronous processing**, improving system responsiveness and decoupling services
 - Implemented RxJS for data streaming, asynchronous flows, and reactive state handling, while also setting clear boundaries on complexity to avoid over-engineering during high-risk phases (code freeze, stabilization, and UAT validation).

- Ensured the solution was designed to coexist with existing Tableau-based analytics, coordinating frontend data contracts and visualization responsibilities to avoid duplicated logic and reporting inconsistencies.
- Acted as the technical point of accountability, balancing delivery speed with stability by:
 - Advocating for regression testing and controlled validation cycles
 - Making informed trade-offs when timelines were constrained
 - Documenting decisions and technical debt explicitly to support future refactors without disrupting production stability
- Served as Lead Consultant, responsible for 1:1 meetings, goal setting, career guidance, identifying training and certification paths, and enabling engineers to grow into the next professional level.
Also facilitated involvement in internal projects to accelerate exposure to new technologies.
- Led Agile ceremonies for the frontend practice, including task assignment, sprint planning, progress tracking, and blocker resolution. Actively participated in frontend technical interviews and code assessment reviews.
- Co-created and led an Angular 16 Bootcamp, including curriculum design, hands-on exercises, progress tracking, evaluations, and direct technical mentoring.
The bootcamp was built and delivered collaboratively with Practice Managers.
- Led modernization initiatives across multiple enterprise applications, including:
 - Angular upgrades (v4 → v16)
 - .NET Core migrations (v1–2 → .NET 8)
 - Introduced modern reactive patterns using RxJS (pipes, operators, observables) to improve data flow, responsiveness, and maintainability.
 - For large-scale applications, centralized state patterns were introduced to prevent complex parent–child state synchronization issues.
- Implemented serverless solutions using Azure Functions to streamline invoice generation workflows, reducing infrastructure overhead and improving processing efficiency.
For an internal enterprise system, implemented Azure Service Bus to automate and manage invoice dispatching, ensuring reliable message delivery, scalability, and decoupled communication between services.
- Enhanced frontend UX using Angular Material and Font Awesome, while applying reactive patterns for async workflows and data handling.
- Contributed to an innovation lab project built with React 16, addressing performance improvements and refactoring large components into smaller, more maintainable units.
- Backend services were implemented using .NET 6 APIs.
- Migrated on-premises applications to Azure Cloud, deploying across Development and UAT environments, improving scalability, reliability, and operational efficiency.
- Championed team growth and technical excellence through mentoring, performance management, and continuous learning initiatives, including internal Angular training programs.

- Migrated Power BI reports to Angular applications using Syncfusion, improving visualization performance, responsiveness, and overall user experience.
- Applied Agile best practices using Scrum methodology and Azure DevOps for tracking, pull requests, and code reviews, while enforcing quality gates and CI/CD pipelines to maintain high delivery standards.
- Proactively expanded skillset by learning React, participating in internal projects to gain hands-on, production-like experience while supporting client transitions.

Software Engineer – Unosquare | Nov 2017 – Mar 2022

- Modernized front-end from AngularJS → Angular 12, reducing technical debt and improving scalability. Implementing the use of RxJs for the use of asynchronous tasks. This approach was possible due to a hybrid application (AngularJS & Angular 12).
- As the application grew, the N layer Architecture started to be hard to maintained. As Sr. developer, I was part of the detection of bottle necks, using Visual Studio Profiler, more specifically in the mainly dashboards and reports. My role was to detect what the bottle necks were caused by. Part of the were caused by huge queries embedded in Dapper, and some other methods were not implementing correctly the use of async programming, couple of the methos were using .Wait or .Result, which lock the thread.
- The solution was to remove the .Wait or .Result and changed them to ... await = `_service.MyMethodAsync()` (with out .Result or .Wait).
- Another solution, along with the DBA, was to move from Repository layer the long queries to an SP or View. The correct use of parameters and the indexation of the most used columns.
- Defined and implemented a cloud-based architecture using AWS (Lambda, API Gateway) and PostgreSQL, enabling scalable, event-driven and API-first solutions
- Designed a hybrid backend architecture combining .NET 8 APIs and serverless functions, improving performance and reducing infrastructure overhead

After those solutions, the Microservices implementation was used due to the large Modules that handled different logic/operations.

- Developed microservices and REST APIs with C#/.NET Core for a major US telecom client and migrated some Microservices into Docker containers. These containers were hosted later by the Architect into Azure.

Designed and exposed RESTful endpoints using AWS API Gateway, enabling secure and scalable access to backend services

- Integrated API Gateway with AWS Lambda and .NET APIs, supporting hybrid serverless and microservices architecture
- Configured routing, throttling, and authorization policies in API Gateway to ensure performance and security
- Delivered responsive UI solutions with AngularJS, Bootstrap, and jQuery.
- As developer, the building of new features for an application related with transactions and payments included the use of React 16, specifically even when React uses its own hooks, the client decided to use RxJs, along with Material UI, using the Jest library for testing.
- Collaborated in Agile teams and ensured code quality with Git version control with the implementation of best practices for the frontend in the code reviews.
- Improved system performance through optimized SQL queries and bug resolution.
- Due to the huge increase of the modules of the application, NgRx was needed to implement to control the state of the multiple components through the application.
- The use of DDD for C# .NET Web API was implemented. For the Microservices the use of DDD and EDD was implemented, along with the use of xUnit.
- As part of a prototype for a Incentive Management Systems, the client required a POC in React 14 to calculate the bonus per employee per quarter. Even when the POC could be accomplished with React Hooks, I prefer to add Redux for the state management. For the testing, since it was only a POC just Jest was enough.

Software Engineer – Tiempo Development | Jul 2016 – Nov 2017

- Built and maintained enterprise applications using C#, MVC, Angular 2, SQL/T-SQL, and MongoDB, ensuring robust data handling and scalable application performance.
- Designed and implemented new modules and features across multiple projects (security, admin systems, educational software).
- For an educational enterprise application React (12) was provided. Mostly focused on bug fixing.
- Supported defect resolution using Rally and served as acting Technical Lead when needed.
- Including some enhancements for the UI using Kendo UI.
- Ensured seamless integration of front-end and back-end components in large-scale applications.

Software Developer – Softtek | May 2015 – Jul 2016

- Migrated legacy Visual Basic apps → C#.NET Framework MVC, improving maintainability. Built SDKs in Java and PHP to showcase multi-language consumption of APIs.
- Developed financial services applications using WCF, Entity Framework, SQL, and C#.NET.
- The use of integration of APIs with WebSockets to display the in real time the progress of the transaction using SignalR.
- Collaborated on broadband/telecom solutions, implementing dynamic data views with KnockoutJs and Bootstrap.

Web Developer – Nuvem Tecnología Viva | Aug 2013 – Apr 2015

- Designed and developed systems for logistics clients using PHP, C#, .NET, and SQL.
- Built and maintained scalable desktop and web applications, ensuring customer requirements were fully met.

Instructor – ExecuTrain | Mar 2011 – Apr 2015

- Delivered training on Excel (basic → advanced) and Web Development with Microsoft Visual Studio.
- Guided professionals in adopting modern programming tools and best practices.

IT Engineer Consultant – Tax Advice & Consulting, LLC | Dec 2013 – Apr 2016

- Implemented IT infrastructure including server setup, VPN, AD, RDS, and application deployment.
- Managed technical operations, ensuring secure and efficient business systems.

Education

B.S. in Computer Engineering – Universidad del Valle de México (2006–2010)

A.S. in Information Technology – Northern Virginia Community College (2013–2014)

Intensive English Program – Northern Virginia Community College (2012–2013)

Technical Skills

Frontend: Angular (2–19), AngularJS, React (12–18), TypeScript, JavaScript, RxJS, NgRx, Bootstrap, Tailwind, HTML5/CSS3/SCSS, Angular Material, Material UI, PrimeNG, SyncFusion, Kendo UI, Node.js, React.

Backend: C#, Node.js, Java, .NET Framework/Core/.NET 8, MVC, Web APIs, Microservices, WCF, SignalR.

Databases & Caching: SQL Server, T-SQL, PostgreSQL, MySQL, Redis.

Cloud & DevOps: Azure, AWS, Docker, Azure DevOps, Git, GitHub, BitBucket, TFS, IIS, Windows Server.

Testing: xUnit, NUnit, Jasmine, Jest, Playwright.

Architecture & Practices: Clean Architecture, Layered Architecture, SOA, Microservices, DDD, EDD, TDD, BDD, FDD.

Data / Mapping: CSV mapping files, Excel/XLSX validation files, JSON payload analysis, product/category/type mapping.

Integrations: Sales Layer API, Commercetools SDK/API.

Tools & Platforms: Jira, Confluence, Power BI, Tableau, Wordpress, Wix, Shopify.

Methodologies: Agile, Scrum, Kanban, Waterfall.

Communication: Microsoft Teams, Slack, Zoom, WhatsApp.