Mario R. Ayala

Senior Software Engineer with 20+ years of experience, including military service, specializing in full-stack web development with .NET Core. Recent focus on Next.js, TypeScript, and Solidity smart contracts, while expanding expertise in React for component-based architecture. Proven track record of delivering enterprise-scale applications across industries.

Lares, PR 00669
(407) 476-7353
MarioAyalaDev@gmail.com
LinkedIn:
@marioayalamscs

EXPERIENCE

MPA Consultants, Lares, PR— *Lead Instructor*

MARCH 2025 - May 2025

- I designed and taught a 70-hour intensive course on professional behavior and interviewing skills, enriching the original curriculum with modules on AI for job search.
- Created comprehensive course material including presentations, assessments and practical exercises that promoted active discussion and student participation.
- I implemented methodology based on progressive sequencing of knowledge, achieving a course completion rate above 90%.

Yukayeke Playa, Añasco, PR— *Digital Transformation Director*

MARCH 2024 - DECEMBER 2024

- Led comprehensive digital modernization initiatives, architecting and implementing a multilingual (ES/EN) web platform using Next.js 14, TypeScript, and Tailwind CSS, resulting in enhanced user experience and improved online presence.
- Designed and currently implementing (as external consultant) a proprietary booking system architecture utilizing Rust and modern web technologies to streamline operations and enhance guest engagement.
- Spearheaded migration from legacy platform (Squarespace) to modern tech stack hosted on Vercel, implementing internationalization and responsive design principles.

Disney Parks, Experiences and Products, Orlando, FL— *Principal Software Engineer / Data Engineering Specialist*

NOVEMBER 2015 - SEPTEMBER 2021

- Led enterprise-wide technical initiatives as principal software architect and data engineering specialist at Disney Parks, serving as the sole software engineer for critical business intelligence projects.
- Architected and delivered an enterprise-scale Business Intelligence Portal unifying SharePoint, Tableau, and MS SQL data sources, implementing an MVC/REST architecture that enabled role-based access authenticating with NTLM for executives across Disney's global operations.
- Pioneered a cross-platform mobile application with Xamarin utilizing geolocation and barcode scanning technologies, integrating with Tableau dashboards for real-time store analytics and product information retrieval.
- Designed and implemented a comprehensive project portfolio management

FRONT-END

Next.js/React

TS/JavaScript

Tailwind CSS

Blazor

BACKEND

.NET Core/C#

ASP.NET

Node.js

MVC/REST

BLOCKCHAIN

Solidity

ERC Standards

Polygon

DATABASES

MS SQL Server

PostgreSQL

CLOUD & DEVOPS

Azure Devops

Github

Vercel

Twillo

LANGUAGES

Spanish (Native)

English (Professional)

solution featuring custom Gantt visualizations for financial quarter comparison and gap analysis.

AVM L.P., Boca Raton, FL— *Senior .NET Developer*

APRIL 2011 - JUNE 2012

- Architected and implemented mission-critical financial reporting systems for derivatives trading, achieving 100% accuracy in OTC transaction validation through robust real-time data verification.
- Designed and developed secure data export frameworks for OTC and non-OTC derivative products, ensuring compliance with industry standards while maintaining data integrity.
- Led the re-architecture of middle-tier systems in ASP.NET and C# for swap-related financial instruments, implementing test-driven development practices with the Moq framework that significantly enhanced platform reliability.

ABB Concise, Coral Springs, FL— *Senior Software Developer*

JUNE 2007 - FEBRUARY 2011

- Developed and maintained ASP.NET e-commerce applications for eye care using C#, SQL Server, Progress DB, and Visual Studio 2010
- Implemented WCF Services, AJAX controls with JQuery and JavaScript for database and client-side communication
- Created new e-commerce features like tiered pricing, coupons, shipping rebates, and auto reordering

Office Depot, Delray Beach, FL— *Senior Technical Lead / Developer III*

NOVEMBER 1998 - JANUARY 2005

Enterprise Systems Architecture:

- Merchandise Financial Planning
  - Led architecture and implementation of Oracle Retail MFP platform, integrating predictive analytics with enterprise financial systems
  - Engineered automated data integration framework connecting disparate enterprise databases (SQL Server, Oracle, DB2, Teradata)
  - Developed real-time UNIX process monitoring system utilizing early AJAX implementation
- Merchandise Financial Planning
  - Led architecture of Oracle Retail MFP platform, integrating with SQL Server, Oracle, DB2, and Teradata
  - Developed real-time monitoring system with UNIX shell scripting and early AJAX implementation
  - Managed Retek Predictive Application Server on UNIX environments Customer Experience Solutions
- Computer Telephony Integration
  - Architected ASP-based integration between Rockwell telephony systems and intranet applications
  - Implemented Genesys libraries in Visual Basic 6.0 for CTI functionality
  - Developed XML/XSLT document management system for enterprise communications

- Order Management Platform
    - Led full lifecycle development of XML-based order entry intranet application
    - Designed COM+/ActiveX shopping cart with JavaScript frontend
    - Implemented B2B communication framework with ASP and Visual Basic Global E-commerce
- International Platform (Viking Direct)
    - Served as Technical Consultant for UK e-commerce implementation
    - Engineered integration between frontend ASP applications and AS/400 business rules
    - Designed distributed Visual Basic 6.0 middleware for cross-border operations

United States Navy, East Coast, US— *Information Systems Specialist (RM2/E5)*

NOVEMBER 1987 - MARCH 1993

- Demonstrated early programming aptitude by self-teaching DBase IV and developing an automated casualty tracking system that streamlined maintenance operations fleet-wide.
- Implemented mission-critical information security protocols and policies for standalone computer systems during Operation Desert Shield/Desert Storm.
- Received commendation for initiative in modernizing manual processes through technology solutions, resulting in significant operational efficiency improvements.

EDUCATION

Florida International University, Miami, FL — *Courses in Computer Science*

1994 - 1998

Dean List

New York Institute of Technology, Online — *Bachelor in Computer Science*

2006 - 2007

Cum Laude

Ellis University, Online — *Master in Computer Science*

2009 - 2010

Magna Cum Laude

VOLUNTEER

Florida Interscholastic Cycling League, FL — *Founding Member*
http://FloridaMTB.org