

RICARDO A VEGA JR

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OBJECTIVE

I am a creative, dedicated, team friendly, and results oriented developer with diversified experience in client/server, mainframe, and mobile platforms. With over 28 years of 'on-the-job' experience, I have developed on all major development platforms and have worked with all major Relational Database Management Systems. I pride myself on understanding the technology needs of my clients, making technology useful to them, and satisfying my client's needs to their satisfaction.

EXPERIENCE

Owner

January 2011 – Present

Noctusoft, Inc., Watauga, Texas

Clients: Choctaw Nation, Pioneer Natural Resources, Match.com, Summit Investment, AAFES, American Airlines, T-Systems, Live Energy, Fastbreak Inc., Amerifunds, VNALTD, Interbay Funding, Bayview Funding

- Created custom Blazor components for Choctaw Nation to assist the tribe in administering benefits to their members. Responsible for code refactoring to closely adhere to SOLID principles and reduce code duplication anti patterns while promoting code reuse. Created command line interface utilities that allowed developers to easily manage data states across REST environments. Primary technologies used where Blazor, .net 6, webapi, mssql, cosmodb
- Converted legacy code igniter app written for AWS EC2 AMI v1 (PHP 5.2) to composer scaffolded code igniter 4 app running in new Ubuntu Ec2 instance on PHP 8.1
- Created WebApi .net 6 API microservices that exposes odata v4 endpoints tied to an MSSQL backend. Created EzDbCodeGen nuget cli that will automatically update EF Models, Services, WebApi Controllers and tests in a way that eliminates the need to manually maintain any of microservice API code. Source Code Repository was Git.
- Created DevOps CI Pipelines in azure for .net and .net core applications.
- Forked pancake swap reactJS application for crypto project so it can process a newly minted coin on the BSC Network
- Performed UI and core module enhancements to custom VTiger implementation
- Converted .net 4.x applications (cli and web api) to .net core.
- Created a microservice application that converted and migrated SDE Spatial data from different user required formats into custom applications.
- Performed data migration for Pioneer Natural Resources/Parsley Acquisition Data conversion in record time by migrating assets contained in spreadsheets into custom MSSQL Backed system and Unifier while maintaining previously existing workflow functionality.
- Created microservice apis that allowed modern applications that allowed simplified communications to legacy Unifier web services that used the SOAP protocol.
- Created Nuget SDK Libraries to drastically simplify SOAP calls to Unifier 16.6/18.8 and Primavera P6. These libraries (called the Unifier Conduit and the P6Conduit) allows the client to easily create connectors in any .net compliant language to bring data into Unifier and Primavera. The library allows code regeneration that allows the library to match the field definitions for each BP.
- Designed and implemented database and WebAPI for Scenario Planner Module initiative using MSSQL, MVC/WebApi on VS2015, EF6 and OData 4 compliant using a Unit of Work design pattern. Wrote a t4/RazorEngine Code Generator to generate middle tier automatically from edmx data.

Skills

Microservices
API
Blazor
Angular
.NET/.NET Core
KnockoutJS
C#
C++
VB
VB.NET
VBScript
Object Pascal
Delphi
AJAX
CSS
HTML/XHTML
Java
JavaScript
jQuery
jQuery Mobile
PHP
WCF
WebAPI
MVC4/MVC5
Node.js

AWS
Azure

ASP/ASP.NET
Batch Scripting:
PowerShell
Bash
Bat
VBS
GIT
SQL
XML/XSL/XSLT
XSL-FO
JSON
COBOL
JCL
SAS
TSO CLIST
WinForms
WCF

MS SQL w/T-SQL
IBM DB2
MySQL w/DDDL

<ul style="list-style-type: none"> • Developer UI based on requirements for Scenario Planner Module using Angular 2 (cli) with Angular Materials Library, Flex and Kendo UI components for angular 2. 	Oracle (w/ PLSQL) DynamoDB CosmosDB
<ul style="list-style-type: none"> • Created a record reconciliation app that allows user to upload and edit data and export a result spreadsheet that is used in downstream calculations. Used .Net Core 1.1, WebApi, EFCore, with an Angular 2 (cli) front end developed with VS Code and MS SQL backend. 	ADO.NET JDBC OLE-DB ODBC
<ul style="list-style-type: none"> • Updated PHP website that handles t-shirt inventory for military printing company using PHPStorm and VSCode. 	
<ul style="list-style-type: none"> • Replicated inefficient Resource Capacity Planning ms access queries that were based on algorithms implemented in ms excel into efficient t-sql that reduced execution time from 10 minutes to 2 seconds. 	Windows Vista/XP Ubuntu 10+ Max OSX 10.6+ IIS
<ul style="list-style-type: none"> • Added Facebook signup and login capabilities to PeopleMedia website properties. 	
<ul style="list-style-type: none"> • Made changes to PeopleMedia website properties (ourtime, spm, bpm, etc) to point to newly developed CoreAPI (Match.com backend) rewire project effort. 	Apache/Tomcat OS/390
<ul style="list-style-type: none"> • Created GPL3 open source node.js application that will take a scanned images and utilize Tesseract-OCR and GraphicsMagick to OCR regions of the image and rename the file based on the result. 	Visual Studio Visual Studio Code
<ul style="list-style-type: none"> • Created outlook automation application that allows administrators to email a 'worker' email address and execute various functions such as report generation and adhoc database retrieval from MSSQL 2014 databases. 	PHP Storm Eclipse JBuilder
<ul style="list-style-type: none"> • Upgraded VS 2008 applications to VS 2015. Performance tuned applications to dramatically improve performance of upgraded applications. Added new .Net4.5 async patterns to application to allow for vastly improved user experience. Rewrote stored procedures to eliminate computationally costly RBAR/cursor queries in favor of CTE, indexed views and temp table stored procedure T-SQL design patterns. Rewrote MS Access app that handles Real Estate Owned properties into WebAPI/MSSQL2014/VS2015/EF6/Bootstrap/Knockoutjs application. Migrated MSSQL 2005 databases to MSSQL 2014. 	Delphi/Lazarus C++ Builder Dreamweaver Zend Studio
<ul style="list-style-type: none"> • Created a WebAPI/MSSQL2014/VS2013/EF6/Bootstrap/Knockoutjs website that tracks mobile minutes usage for users of different departments at the Army Airforce Exchange. Also created WebAPI/MSSQL2014/VS2013/EF6/Bootstrap/Knockoutjs website that replaced a sharepoint corporate checkbook tracking application. Converted legacy PGP app to OpenPGP app to improve a process that uploaded credit card transactions to a legacy mainframe system. Applied modern web technologies (jquery/knockoutjs/jqgrid) and API design pattern to classic ASP application Travel Management System (TMS). Provided support to production issues to various technologies (.NET, Classic ASP, VB, IIS, Java) as required by client. Created SSIS packages that were used to transfer data from 3rd party vendor to internal systems. Instructed several employees on how to develop SSIS packages. 	Vtiger DotNetNuke PHPNuke WordPress Facebook Twilio Unifier Primivera/P6
<ul style="list-style-type: none"> • Maintained/Developed Emergency Room Admittance software for T-Systems in Addison (Client/Server, C++/C#, VS2012, MSSQL, and Agile SDLC) that has over 100 hospital deployments of various installed versions. Developed a Managed Cache with a COM Interface that increased performance by allowing the application to skip expensive database calls, by drawing from cached data already retrieved, resulting in a thousand fold performance improvement. 	
<ul style="list-style-type: none"> • Exposed backend data for American Airlines as a RESTApi from a MySQL and MSSQL databases using MVC4 and WebApi in Visual Studio 2012/.NET4.0 with SimpleData as the middleware ORM. 	
<ul style="list-style-type: none"> • Created high availability data feed from Peoplesoft and Taleo into a custom CMS for the careers web site for a merging of 2 major airline companies for American Airlines. This technology utilized all Amazon Web Services and included EC2, RDS, DynamoDB, CloudFront, S3, SQS, and SNS written in C# using Visual Studio 2012 for American Airlines. 	
<ul style="list-style-type: none"> • Lead role in creating a high traffic Facebook application utilizing a PHP, JQuery, Ajax front end, a C# .NET middle tier and an AWS DynamoDB backend for American Airlines. 	
<ul style="list-style-type: none"> • Utilizing client data, created a set of objects in VB.NET in Visual Studio 2012 that articulated the data hierarchy of the client data completed with automated JSON serialization. These objects were then exposed to client views view a RESTAPI created using C# and WCF for American Airlines. 	

- Lead a team of 2 developers that created a custom website deployment application utilizing PHP/C#/MySQL and Amazon Web Services. The client can use the app to easily duplicate previous web applications (known as templates) and deploy it from Development, to QA, to production (where the servers are hosted on AWS). The application utilizes the Amazon Web Services for production deployment by starting an instance based on an AMI, then deploying that app to the new running instance for American Airlines.
- Created a completely functional dialer application (with mute, 2 lines, call transfer, voice mail) using HTML, JavaScript, the Twilio RESTApi and Twilio Client Libraries for Live Energy.
- Implemented Open Source CRM software solution VTiger for several clients. Performed data conversion from Sugar CRM to VTiger. Designed and created custom modules for VTiger based on client needs for Live Energy.
- Converted .NET applications to PHP to save my client 70% on hosting fees. Migration was from VB.NET/C# hosted on IIS with a MS SQL 2008 (w/T-SQL) backend to LAMP stack developed on Eclipse, Adobe Dreamweaver, and MySQL Enterprise Administrator for VBC, Ltd/
- Create PHP/MySQL/JQuery Mobile application for a local tournament team to help provide facilitate data analysis during a national tournament.
- Contracted to evaluate and tune previously written SQL statements (T-SQL).
- Using MS Access, I helped aggregate data from CSV text files, Oracle output and PRN data sources to make data useful for a bank client's data conversion.
- Created a PHP Open Source class (released under the LGPL3) that contains an algorithm that will generate a schedule for teams playing each other respecting back to back games and the distance that a team has played previously.

Consultant

August 1996 – January

2011

Vega And Associates, Ltd., Keller, Texas

Clients: VBCLTD, Amerifunds, Bayview Funding, Interbay Funding, TD BankNorth, Meritech Mortgage, Lomas Information Systems

- Addressing a need to have applications generate PDFs, I created a Tomcat XSL-FO PDF generator service. Customers would mock reports using MS Word. Using rtf2fo, we would convert the reports to XSL-FO. XMLSpy was then used to debug the transformation. VB6 Client/Server and ASP apps would send an XML data file to the Tomcat virtual path and call a servlet to generate the PDF, then stream the PDF to the consumer.
- Developed web application for Amerifunds in PHP using VS.PHP and Eclipse PDT with a MySQL backend.
- Modified Open Source SIP Communicator Application for a Telecommunications Company in Java using Eclipse.
- Developed, tested and implemented WinForms conversion programs in support of customer relationship data for a regional bank C# in Visual Studio 2008 for our client TD Banknorth.
- Developed, tested and implemented WinForms conversion programs in support of commercial real estate data for a regional bank C# in Visual Studio 2008 our client TD Banknorth.
- Developed, tested and implemented WinForms conversion programs in support of mortgage loan acquisitions C# in Visual Studio 2008 our client TD Banknorth.
- Developed Web based application for the apple safari browser on the iPhone to allow a tournament easier data entry using ASP.NET Web Services, C#, Ajax, iUI and MS SQL 2008 (w/T-SQL) on Visual Studio 2008 for a national tournament.
- Developed Custom Modules for DotNetNuke Application framework for a Consulting Company using ASP.NET 3.0, VB.NET, C#, Ajax, and MS SQL Server 2005/2008 (w/T-SQL), Visual Studio 2008 and Dreamweaver CS3 for Vega Companies.
- Developed website for Vega Companies utilizing Adobe Dreamweaver CS3, Adobe Fireworks CS3.

- Developed an Open Source Application (image2xml) that allows developers to OCR image data into a meaningful hierarchical format using Delphi 2007/Free Pascal/G32/OmniXML.
 - Developed a utility that allows the conversion of images to PDFs using Delphi 2007.
 - Responsible for remote origination interface for mortgage loan servicing company.
- Developed, implemented and maintained system that extracts data from two source systems, and creates file and transmission to third system using ASP 2.0, VB 6, IIS and MS-SQL Server 2000 (w/T-SQL) for Bayview Loan Servicing.
- Developed a Real Estate Owned (REO) tracking web application using JSP Struts and Jbuilder 9. Developed a AWT/Swing client server image uploading application to the REO website using JBuilder 9 for Interbay Funding (Miami).
 - Developed Underwriting Management System for Bayview Loan Servicing using ASP 2.0, VB 6, IIS and MS-SQL Server 2000 (w/T-SQL).
 - Developed Commercial Real Estate (CRE) tracking application for Bayview Loan Servicing using ASP 2.0, VB 6, IIS and MS-SQL Server 2000 (w/T-SQL). Maintained and modified CRE application to allow data flow from down stream and upstream business processes that include applications written in Java and Oracle (PL-SQL).
 - Developed, implemented and maintained a Bid Entry system using ASP 2.0, VB 6, IIS and MS-SQL Server 2000 (w/T-SQL) for a loan purchasing company that interfaced with preexisting systems across different platforms for Interbay Funding (Grapevine).
 - Developed automated backup systems of existing website for consulting company using Shell Scripts and VBScript for Vega Companies.
 - Developed Open Source application that allows users to generate spoken math equations based on script entry using WAV files (thus allowing them to speak equations in their own voice) utilizing Visual Studio 2005 and C#.
 - Developed Open Source application that allows user to, using the command line, recursively delete files based on various file properties (such as date modified).
 - Developed HLAPPI tool to automate application system updates for large volume and/or repetitive transactions.
 - One of three programmers that designed, developed, tested, and implemented a laboratory Information Management System for the Tarrant County Medical Examiner's Office, written in Delphi 3. Responsible for all mainframe interfaces, including PC to MVS, screen scraping, data transfer, and terminal operator automation. Also created specialized development tools using ODBC API 3.0+, WIN API for 95, 98, & NT, and interfacing the application with Microsoft Word and EXTRA Personal Client thru OLE/Active X automation.
 - Designed, created, implemented a utility for the conversion of COBOL ASCII output to Microsoft Access written in C++ Builder 3.
 - Redesigned and converted COBOL CICS an batch applications that were tied to a IMS database to use ODBC compliant DB2 databases.
 - Created numerous Visual Basic programs to support data transfer between PC based SQL server to mainframe based service bureau.
 - Created barcode inventory tracking system in Delphi 4.
 - Developed and maintained numerous reporting applications written in Access 97.
 - Developed and implemented application in Visual Basic 6.0 using ADO tied to an SQL server database that creates a batch data transfer file and e-mail and pager notifications.
 - Created web page for research and Development Company using NetFusion NetObjects.
 - Created various OCXs for use by MIS staff to dramatically reduce coding efforts for FTP scripts.
 - Developed automated routines that allowed programs that updated IMS databases as part of a data conversion function to process unmanned. Included automated abend solution process and automated job dependency handler.
 - Developed Assembler H programs to run under MVS/ESA that would allow for all programs that call it to not be limited by record lengths. This addressed a lingering problem of incompatible file types and record lengths of data feeds from various external data sources for a major telecommunications provider.

- Programmer analyst for development of interfaces between PC platform and mainframe systems for mortgage banking company using Visual Basic connecting to Microsoft SQL Server database and COBOL mainframe system.
- Designed and developed of employee evaluation/inventory scoring system using Delphi 3.0.
- Developed data validation system/screen scrapper using EXTRA! Basic.
- Maintained Insurance processing system using C in SCO UNIX System 5 environment.
- Developed and maintained insurance conversion system using Visual Basic in PC environment with Jet database engine.
- Designed and developed financial accounting system for staff augmentation company using Access.
- Programmer analyst supporting mainframe MVS COBOL II and DB2 billing application for major telecommunications provider.
- Maintained Insurance processing system using C in SCO UNIX System 5 environment.

Programmer Analyst

January 1996 – October 1996

Rapp Collins, Irving Texas

- Responsible for the support of Bell Canada's telephone award system online and batch programs using CSP, batch COBOL, DS/SQL under DOS/VSE.
- Redesigned system for efficiency, replacing ten VSAM files using copybooks with modular approach. Reduced subsequent development time by 25%.
- Program development for DOS/VSE was performed and tested using Microfocus COBOL and XDB/DB2

Programmer

March 1992 – January 1996

Lomas Information Systems, Dallas, Texas

- Team member responsible for design, development, testing, implementation and support of conversion system to support loan conversion and acquisitions to the Excelis loan servicing system. Conversion system consisted of COBOL II applications on OS/MVS/ESA platform.
- Developed subsystem in COBOL/SAS/JCL and Syncsort to emulate SAS programs with 80% efficiency improvement.
- Participated in development and maintenance of COBOL based code generation system.
- One of two individuals responsible for performance tuning of conversion programs written in several languages including COBOL, SAS, Assembler, TSO Clist, JCL, and IMS. Reduced run time of conversion system by 60% due to overall performance enhancements.

EDUCATION

Information Technology

Northlake College, Irving, Texas

Computer Science

University of Texas, Arlington, Texas