George Ryan Perez

Experience

Lead Developer/Independent Software Consultant

iGlobal, LLC   August 2011 – present

- Supervised team of 5 developers on individual projects which crossed disciplines and .NET code bases, specifically trucking logistics apps, websites, and services
- Proposed and executed a 1,000-fold increase in potential end users by planning and implementing large-scale changes to database and backend services
- Supported re-write of legacy apps to modern frameworks which garnered third-party certifications and replaced all proprietary hardware to Android-based tablets
- Enhanced in-house deployer app which downloads mobile applications over a cellular connection, allowing partial downloads via chunking
- Optimized build process by porting to vNext/Azure, cutting build times in half
- Continued developer role as a consultant for 20 hrs/wk while pursuing M.S. degree

Grad school projects

University of Florida   August 2012 – December 2014

- Master's Project: architected app that used gestures via Microsoft Kinect to enable guitarists to change their EQ/volume levels in real-time while playing instrument

  (Project page: georgeryanperez.com/Project/Kinect-EQ-Interface)
- Lead 3-student team to simulate real physics-based tornado using Unity 3D/JavaScript for visualization and C#/MATLAB for simulating fluid dynamics

  (Video: youtube.com/watch?v=emMpCWHrm04&t=3m7s)
- Added a cone head to a 3D face model via polar subdivision

  (Video: youtu.be/PNrzlO1wPng)
- Used Max 6.0 to compose a rendition of Splash Woman stage music from Mega Man 9 with new synth sounds (via ADSR envelopes) and a PS3 controller as input

  (Video: youtu.be/_sSwz2lsL-A)
- Created a time-tracking application (Desktop and Windows Phone) which used gamification elements to increase study schedule adherence

Program Manager Intern

Microsoft Corporation   May 2013 – August 2013

- Managed full-time Microsoft Office Division developers to design, write specs for, and develop a proprietary tool which localized Microsoft OneNote mobile app resources from English to a specified language at runtime, saving developers from having to install localized versions for verification

Intermediate Software Developer

iHeartCommunications, Inc./Florical Systems   July 2007 – August 2011

- Invented FanChat™, an instant messaging-styled chat agent which generated new revenue by tying agent to on-air broadcast system
- Developed new applications in 3+ years using WPF/WCF/LINQ to SQL/SOA, etc., for transferring/transcoding video and database content
- Initiated/managed shared .NET libraries and increased reliability of nightly build

Senior Systems Technical Analyst

ExxonMobil Information Technology   October 2003 – February 2007

- Increased user acceptance of a proprietary basin modeling application written for UNIX by reengineering to run under Windows and UNIX
- Redesigned presentation/computational layers and administered mixed-language interoperability between Fortran, C, C++, Managed C++ and C#

Software Developer Intern

ExxonMobil Upstream Technical Computing   May 2003 – August 2003

- Refactored reusable suite of libraries in Visual C++ for development of applications using grids and 2D plots on property pages

Software Developer Co-op

Dell/UF Integrated Product & Process Design   August 2002 – May 2003

- Worked with a multidisciplinary team to implement a DOS executable which tested BIOS settings which led to faster validation of new Dell machines

Software Developer Intern

ExxonMobil Upstream Technical Computing   May 2002 – August 2002

- Engineered persistent editing spreadsheet module in Java, Java Swing, and XML for subterranean data analysis under UNIX

Education	
M.S. in Digital Arts and Sciences, College of Engineering	
University of Florida	December 2014
Graduate Minor in Entrepreneurship	
University of Florida	December 2014
B.S. in Computer Engineering	
University of Florida	May 2003

Awards/ Affiliations	
Microsoft Certified Technology Specialist	April 2011
Patent US 20100251279 A1	September 2010
NAB 2008 Broadcast Engineering Pick Hit	April 2008
USAA All-American Scholar Collegiate	May 2001
Fulton Engineering Scholarship	April 2001
CISE ExxonMobil Scholarship	March 2001
The National Dean's List	March 2001
Golden Key National Honor Society	December 1999
President's Honor Roll	December 1998

Skills

- Expert: Azure DevOps, C#, Managed C++, .NET, SQL, Visual C++, Visual Studio
- Intermediate: ASP.NET MVC, C++, CSS, Common Lisp, CLIPS, Java, JavaScript, HTML, NServiceBus, OpenGL 3.x+, Windows Phone, XAML, XML
- Volunteering: Site Leader for Gator Plunge 2013