

Jacob A. Muñoz

(703) 507-7643

me@poxix.com

Experienced Cross-Platform Software Developer and Consultant

Extensive experience with various languages, programs, and platforms:

- 2015 - jsRender, jsViews
 - 2014 - Raspberry Pi, jQueryUI
 - 2013 - SVG, d3, RSS
 - 2012 - jQuery, Ruby, nodeJS
 - 2011 - Android, Drupal
 - 2010 - Arduino, WordPress
 - 2009 - GTK+, SSH
 - 2008 - Mono 2.6 (C#)
 - 2007 - MS T-SQL & Microsoft SQL Studio
 - 2006 - PHP, MySQL, AJAX
 - 2005 - MS .net 2.0 (C#)
 - 2004 - Python, PBasic
 - 2003 - RealBasic (Mac)
 - 2002 - JavaScript, DHTML
 - 2001 - MS .net 1.1 (VB)
 - 2000 - C++, Java, VBA
 - 1999 - Linux, bash
 - 1998 - Visual Basic, HTML
 - 1997 - PowerBasic
 - 1996 - QBasic
 - 1994 - GWBasic
- Microcontroller robotics software/hardware experience (BasicStamp, Arduino, Raspberry Pi)
 - Supercomputer cluster (>500 node) experience
 - Multi-project management experience
 - Open-source software specialization
 - PC and server hardware maintenance and repair
 - Network configuration, SSH tunneling, CA management, and remote-access experience
 - Windows-to-Linux migration specialization (Windows to Wine on Ubuntu / Linux Mint)
 - DNS registration, VPS and shared hosting configuration (WHM, cPanel)

Work History:

September 2011 – Present: poxix.com (Owner / Independent Consultant)

- Developer of 'poxCMS' HTML5 application framework
 - Research project Evolutionary Assembly Language (EAL) in progress. Open specifications in progress.
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July 2008 - February 2009: NAI Associates (Agent)

American Geophysical Union (<http://www.agu.org>)

- Contracted consultant for new web projects and website maintenance
- Developed fully-automated credit card charging system for on-line contributions and donations
- Collected and centralized information relating to server software upgrade for entire site
- Provided technical assistance to developers and web editors

March 2009 - August 2011: Senior developer for IT firm / property management company

- Maintained several aging ASP.Net 1.1/2.0 applications
- Managed and monitored several MSSQL (TSQL) 2005, 2008 databases
- Consulted with clients to develop specifications

October 2007 - April 2008: Filnet Inc. (Mid-level Web Developer)

Contributed to development of commercial web portals

- Miller & Smith Homes (<http://www.millerandsmith.com>)
 - Custom CMS portal using Apache, MySQL, PHP, ECMA/Javascript, XHTML
 - Multi-layer Google Maps interfaces with database-driven markers and driving directions
- U.S. Civilian Research & Development Foundation (<http://www.crdf.org>)
 - Custom application portal using ASP.Net C#, MS SQL, IIS, XHTML
- Several other small private projects involving PHP, ECMA/Javascript, XHTML, CSS, etc.

January 2007 - October 2007: Independent PC repair / Technical consultant

- Volunteer supporter and page host of Virginia Tech Alumni Charity / Memorial Fund
- Developed 'Sundew Desktop' freeware for research in VB.Net 2.0 while pursuing MCTS 70-526
- Local PC / Mac repair and support

August 2005 - December 2006: Berkeley Research Associates. (Contractor)

Naval Research Laboratories - Labs for Computational Physics and Fluid Dynamics

Computer Scientist and Alternate Network Technical Representative

- Supercomputer cluster support and maintenance (500+ Opteron/Xeon blades with Fedora Core 4 Linux)
 - SGI Altix 3000 and other HPC hardware support and maintenance
 - Windows 2K, XP, Mac OS X.3 X.4 software and hardware support and maintenance
 - Cross-platform Java and Python software tool development
 - Customized tools developed from ImageJ for rendering of computational output
 - Used Java for CSV-to-KML conversion tool for data presentation within Google Earth
 - Developed batch-job and control interface with Python and OpenPBS/Torque
 - Implemented branch-wide "Wiki" using PmWiki and PHP for software and manual tracker
 - Designed "New user" / Intern welcome guides and maps
 - Introduced document archival system
 - 3D building modeling using Google SketchUp
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December 2003 - August 2005: Independent consultant and hardware technician

- Developed eight VB.Net software packages for the management of purchase orders and construction project outline
 - Composed of XML database with transaction tokens and client-side synchronization
 - Automated printing of magnetic-readable checks
 - Installed complete Ethernet network installation for office of 7 terminals with server and router configuration
 - Technical maintenance of various Windows platforms and all office hardware devices
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January 2001 - September 2003: Foretec Seminars (acquired by NeuStar)

- Conference Media Producer
 - Responsible for editing, publishing and distribution of all meeting materials (CD, web, hard copy)
 - World Wide Web Consortium 9 Conference
 - Python 9 & 10 International Conference
 - Internet Engineering Task Force (46-54) (www.ietf.org)
 - Member of IETF Secretariat - Assistant to Executive Director
 - Proceedings Administrator (CD, 1800+ page hard copy, 3 annual meetings)
 - Developed official IETF proceedings layout standard
 - Implemented formal procedures for submitting meeting materials (minutes, presentations, chat logs)
 - Web master for private IESG management portal and mailing lists
 - Managed private/confidential lists for nominations committee (IESG "NomCom")
 - Assisted in presentation of first meeting of the Internet Research Task Force Anti-Spam Research Group
 - Participated in IETF 'Spam'-filtering regulations compromise with IESG
 - Central Mailing List Administrator and Spam "Czar"
 - Managed 400+ group lists (public and private)
 - Liaison for 50+ remote list administrators (overseas and domestic)
 - Provided immediate action regarding filtering and bouncing
 - On-Site Management Assistant (Minneapolis, Atlanta, Salt Lake City, Pittsburgh, San Francisco, Washington DC, London, U.K. and Yokohama, Japan)
 - Assistant Meeting Registrar
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Hobbies:

- Endangered carnivorous plant cultivation (Dorsera, Pinguicula, Sarracenia, Utricularia, Cephalotus)
- Raspberry Pi robotics
- Computational meta-biology research - Evolutionary Assembly Language (<http://poxix.com/eal>)
- Pegboard construction