

Robert Melton

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Résumé

Objective

I am looking for a senior or lead developer position on a small development team that focuses on highly dynamic web applications. I am seeking a team where I can leverage my multilingual programming background and enhance the team with my tool and process optimization skills. A role where I am instrumental in bringing about organizational change is considered a plus.

Skills Summary

Format: Language (years of experience/last used).

General Languages: Perl (9/2009), VBScript (8/2007), Python (6/2009), Ruby (5/2009), C++ (3/2005), C# (6/2009), Erlang (1/2009), Java (7/2009), Progress 4GL (1/2009), Cobol (2/2002), Delphi (3/2004).

Web Focused: PHP (9/2009), ASP[PerlScript, VBScript, JScript] (8/2007), Javascript (9/2009), ASP.net (5/2009), ColdFusion (4/2006), ActionScript (2/2009).

Tools, Technologies and Environments: WCF(1/2009), MySQL (8/2009), MsSQL (7/2009), PostgreSQL (6/2007), Oracle (3/2006), Rails (3/2009), Django (1/2009), J2EE (4/2006), Zope (2/2007), Plone (1/2007), Apache (7/2009), AJAX (4/2009), X-Query (3/2009)

Employment History

The work listed is per employer is simply a sample of my work, and is not exhaustive.

Senior Developer @ IXI Corp, VA

July 2009 to Current

As the Senior Developer at IXI Corp, I am involved in the maintenance and development of new client facing solutions. I was the primary mover on changes to version control, was involved in interviews and staffing decisions, technology choices, coding standards, documentation standards and testing standards.

Accomplishments to date include: [1] Implemented the migration from VSS to SVN [2] Implemented a live feed to our data back-end that required the ability to sustain 5000+ request per second with a return time per request of under 30ms. This was implemented using WCF, Memcache, local-process caching and a high level of configuration tweaking to enhance performance. .

Lead Developer @ Eagle Publishing, DC

Dec 2007 to July 2009

As the Lead Developer at Eagle Publishing, I was involved in the maintenance and feature upgrades to 70+ sites including HumanEvents.com and Redstate.com. My primary role is that of a developer, but I am also the primary mover on technical decisions including: version control, staffing decision, language, database, coding standards, documentation standards and testing standards. I manage one full time developer and one consultant on monthly retainer, as well as having a high degree of integration with the rest of the IT operations team.

Accomplishments to date include: [1] Converted an unmanaged and unmaintained infrastructure to a revision controlled, unit tested, wiki documented system with full deployment management. [2] Implemented a massive shift in software design, from many individual fully functional applications to a generic, common SOA back end. [3] Migrated from a series of independent template systems to standardized XSLT system that worked across different toolkits, allowing more content reuse. [4] Migrated our in-house / cached content hosting solution to a proper managed hosting facility that better met the needs of the business. [5] Ported our second largest site from a failing custom solution built on Django over a one year period to a successful WordPress platform in five weeks.

Lead Developer @ Technology Brokerage Group, MD

Oct 2006 to Dec 2007

As the Lead Developer at Technology Brokerage Group, I was involved in managing and supporting a few basic sites, and a single complex application. Technical decision making included: language, database, coding standards, documentation standards, testing standards, hardware platform, hosting platform, backup platform and most other IT related decisions. I managed two full time developers for some time, and as the project wound down,

a single full time developer.

Accomplishments included: [1] Redesigned the primary application so successfully, that full time software developers were no longer needed. This was an SOA design that included consumption of outside data (web APIs, website scraping, multiple data files), order modification and discounting, automatic email-interaction, and billing. [2] Extended and optimized the large PostgreSQL database. Improved the "average case" by 4x, and in certain exceptional cases, increased performance over 100 fold. [3] Dozens of other ad-hoc tasks including back end scripting, support maintenance and code for other related sites.

Senior Developer @ Revolution Health, DC

May 2006 to Oct 2006

As a Senior Developer at Revolution Health, my primary task was to build out the data import system. This included dealing with third party providers of articles, videos, imaging, indexing, and the complex licensing involved in all these tasks. This required a scheduling engine, mapping engine, indexing engine and integration, and lots of contact with third party developers, as well as playing middle man between the content management system and site teams.

Accomplishments included: [1] Developed a generic back end import system allowing plug-ins to be added to it to bring data into our content management system pipeline. [2] Developed a scheduling system both for putting important data onto our site, and as importantly, timely removal and reference cleanup. [3] Developed a custom cleanup system for the HTML content feeds ensuring that they wouldn't break the layout of our site, stripping out and separating embedded media. [4] Extended the external editor for the Zope, which included COM work as well as modification to the Plone server component. [5] Developed a system for managing similar content and ensure that the same syndicated content, edited by two different companies, did not come up twice.

Senior Developer @ Superlative Technology, VA

Jan 2003 to May 2006

As a Senior Developer at Superlative Technology, my tasks were astoundingly varied and depended on the contract/clients needs. My primary roll was a Senior Developer on a small team of 2-6, but at times, I acted as a lead developer on teams as large as 18 people.

Accomplishments included: [1] Developed a system for remotely controlling a workstation via an embedded web server running in a Win32 Service. It allows fine-grained window control for accessible via standard HTTP calls. [2] Developed an ActiveX Control for viewing MJPEG image streams. [3] Developed a Wireless Camera Network Management Interface for the Joint Operation Command and Center at Metro DC Police. [4] Generalized the suite of tools used at Metro DC Police for use in any large scale video surveillance task, and is currently in use by Miami-Dade Police, Saint Paul Capitol Police, Secret Service, and FBI, in addition to Metro DC Police. [5] Developed and implemented a new database, data entry and reporting system for the Metro DC Police's crimes statistics group. This system was responsible for all crime data from data entry to reporting (including both federal reporting, and statistics requests from the media). [6] Developed automation tools for the JCONIIA Effort at DOJ: Civil Rights. [7] Developed an Exchange 2000/NetJunction to Exchange 2003/SMTP automation suite, migration plan, test lab and planned the pilot for DOJ: US Trustees.

Developer @ Expanse Memory, VA

Oct 2000 to Jan 2003

As a developer at Expanse Memory, I started out as an in-house developer, but transitioned out to being a consultant. My position would later be transferred over to Superlative Technology.

Accomplishments included: [1] Developed a paperless Request for Telephone Service for the DC Government. [2] Developed the Commitments Tracking System. This system is used to track all agreements between Metro DC Police and outside agencies. [3] Developed a GPS tracking application for the I-PAQ. It was two parts, the server side component, and the I-PAQ component. It allowed tracking of police officer locations on an overview map. [4] Developed complex data validation tools for OnePromise, a subsidiary of Expanse Memory. [5] Developed series of simple interactive applications for Metro DC Police including a phone book, cell phone repair application, event tracker and others.

President @ Labrat Technology, VA

Jan 2001 to May 2006

As the President and founder of Labrat Technology, my tasks included everything involved in running a business, from accounting, to payroll, to doing contracting work myself. I maintained this position while working for other companies until it came into conflict with the hiring rules at Revolution Health.

Accomplishments included: [1] Developed a product for NetList which is used for tracking and managing their build process. This will be used for managing every module of ram that leaves the NetList facility, and doing quality assurance on them. It is also be used in managing failures and finding statistical anomalies. [2] Developed a custom web site and administration system with dynamic image layover for Medallion Vehicle Products. [3] Developed miscellaneous tools for Medallion Vehicle Products including database imports and rebuilds, application launchers, email extraction tools, imaging tools, FoxPro recovery tools, customization to legacy applications such as TeleMagic and Accounting Plus, and a simple time card application. [4] Developed an application for tracking loans and their status for George Mason Mortgage Corporation. [5] Developed an application for advanced file management via a website for DuPont used on DuPont's global intranet. [6] Developed an ActiveX library to take advantage of Dialogic Voice Board for Archatech.

Education

Autodidactic

1998 to Present

MIT OpenCourseWare: Signals and Systems, Structure and Interpretation, Computational Structures, Signal Processing, Language Engineering, Probabilistic Systems Analysis and Applied Probability, Algorithms, Entropy Study, Web Applications, Applied Parallel Computing, Distributed Computer Systems.

Stanford OpenCourseWare: Linked Lists, Tree Recursion, High Performance Computer Architecture, Programming Methodology, Programming Abstractions, Programming Paradigms, Natural Language Processing

Berkeley OpenCourseWare: Operating Systems and System Programming, Machine Structures

OLI OpenCourseWare: Causal and Statistical Reasoning, Theory of Automata and Formal Languages

Utah State OpenCourseWare: Error Control Coding, Information Theory, Database Design

Lake Park High School, IL

1995 to 1999

In high school, worked as a student administrator, helping keep the networks up and running, rebuilding machines, and generally assisting the on-site administrator. It was a 500+ computer network.

Community Activities

I was paid for a small number of the speaking engagements.

Speaking: I have spoken in front of community groups on AJAX, XUL, SVN, LTSP, Ruby, and Vim. I have spoken to business units (World Bank, Library of Congress, DOJ, FDA) about the importance of version control in even non-obvious situations (imaging), the importance of revision controlled documentation (primarily wiki based) and the importance of allowing your problem scope to guide you to OSs, Programming Languages and other tools.

Technical: Developed software and helped to deploy systems based on LTSP at multiple locations. These locations included: Yorktown High School in Arlington, Berkeley Apartments in Arlington, and Alamo Heights in San Antonio.

Supportive: I currently manage the #vim channel on Freenode, a smattering of private and public websites and I am an contributor to vim.wikia.com.

Open Source Experience

I have worked on a large number of open source projects, and I am constantly churning out little utilities.

American Five!: a C#.net app that is a clone of the game Cinco!

Windows Killall: a small perl app that emulates the killall application from *nix on windows.

Flash Desktops Wallpaper: a small C app for hooking the desktop switching of flash desktops and changing the windows background in response.

Teacher Tool: a python application that uses Virtual Network Computing to help a teacher interactively show his students how to use their desktop as well as log them out and assorted other features.

Vim: run the #vim community channel on Freenode, assist in maintaining the vim.wikia.com wiki, and from time to time submit a patch.

Window Maker: various small patches in the Window Maker source tree.

Clearances

I am interested in acquiring more clearances, and simply need sponsorship.

Public Trust: 85P.

Internal: Metro DC Police, Minnesota State Capitol Police, Miami-Dade Police Department, US Department of Justice, US Secret Service.

References

References will be provided on request.

Salary Range and History

Salary range and history will be provided on request.