3514 Arcadia Street · Evanston · Illinois · 60203

Experience

2/2010 - present, Northwestern University (http://osep.northwestern.edu/)

I am the current lead developer for the iLab (http://elabcentral.org) and EcoCasting (http://ecocasting.northwestern.edu) projects, and I work in conjunction with our partners at National Geographic on the software for the Watershed Dynamics (http://wd.northwestern.edu) project. I work in the Office of STEM (Science, Technology, Engineering, and Mathematics) Education Partnerships whose mission is supporting K-12 students and teachers by connecting them with the world-class STEM resources of Northwestern University.

Software Developer

- Support and advise curriculum and content experts on technology decisions within department.
- Implement new iLab client for ICP-OES instrument [Flex / AS3 / .NET / PHP]
- Create series of models to support learning goals in EcoCasting project [NetLogo]

1/2009 - present, **SpeakSake** (http://www.speaksake.com/)

When this start-up lost their CTO, I was brought in to complete the website. I have been balancing the needs of an expedient launch against the functionality, security, and aesthetic requirements of the website and associated server infrastructure.

Website Technical Lead

- Work closely with CEO and board members to guide and implement website.
- Maintain website front end and administrative back end [PHP / MySQL / jQuery].
- Incorporated an e-commerce payment system into the website and performed extensive security tests [PHP].

6/2007 - 10/2009, Chicago Software Solutions (http://www.chicagoit.com/)

During my time at Chicago Software Solutions I worked in many different capacities, as outlined below. However, there were common threads throughout the experience. I lead multiple, simultaneous projects through their full life-cycles: from design and architecture to final product delivery. I worked directly with clients to translate their needs into solutions that met their budgetary, technical, and aesthetic constraints.

Lead Software Developer, Video Conferencing Project

- Lead implementation team.
- Designed solution which included:
 - » Desktop application [Flex Adobe AIR]
 - » Desktop background service [Visual Basic.NET]
 - » Web video viewer / chat client / document sharing service [Flex Adobe Flash]
 - » Administrative website [PHP / MySQL]
 - » Chat plugin for media server [Java]
- Successfully brought project in on time using three previously unused technologies (Flex framework, Wowza Media Server Pro, and Amazon EC2 architecture).

Lead Software Developer, Food Industry's Internal Business Solution

- Migrated legacy Access application to web application [PHP / MySOL / ¡Query].
- Normalized and updated database to enforce data integrity.
- Evaluated performance of new web application at up to 10 times faster than legacy application.

Lead Software Developer, Medical Data Capture Project

- Designed and implemented multi-platform commercial software package for Windows and Mac OS X to synchronize with applications on both Palm and PocketPC hardware. [Access / Wise / FileMaker Pro / Iceberg / Satellite Forms].
- Implemented custom Palm synchronization conduit for Mac OS X in Objective-C [Xcode].

Software Developer, Financial Trading Services Website

- Maintained and upgraded website which supported an active user base in the thousands, required a 99% up-time during market hours to post current trade data, and processed hundreds of thousands of unique page requests per day. [C#.NET].
- Created services to process nightly trade reconciliations.
- Championed the usage of encryption and secure transmission protocols for the movement of sensitive financial information, which had previously been moved in plain-text over unsecured FTP.

1/2002 - present, Barclay Sheaff Consulting

Needing to maintain a flexible schedule, I started a consulting firm with a colleague. My responsibilities included creating websites, network management, hardware and software installation, as well as support for all the above.

IT Consultant

- Started a web design and hosting business which, within two years, had several local, multimilliondollar businesses as clients.
- Created websites including:
 - » http://www.canastamusic.com/ for local Chicago band, Canasta. Functionality includes forum and custom CMS for articles and photos [PHP / XML / XHTML / CSS].
 - » http://www.hayes-lango.com/ for law firm [Drupal / PHP].
- Designed and implemented many private and commercial websites using PHP, XHTML, CSS, Adobe Flash, Adobe Photoshop, and FreeHand.
- Installed and repaired hardware and software on personal computers, including but not limited to Windows XP, Windows 2000, Windows 2003 Server, Microsoft Office.
- Taught computer classes and engaged clients to educate them during on-site visits.

11/2000 - 8/2001, Patterson, Gray & Associates (http://www.pattersongray.com/)

My primary responsibility was the legacy database code [MUMPS] for a private medical practice. I updated and expanded the database functionality and integrated it with new desktop and web clients.

Programmer

- Worked in a small team using an iterative and incremental development approach.
- Implemented new user interface in Visual Basic.
- Supervised and mentored junior programmers.

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Technical Summary

Languages				APIs	
PHP JavaScript ActionScript Java	C# C/C++ Objective-C	ASP Visual Basic Pascal	XHTML CSS LaTeX	Microsoft .NET Framework jQuery	
Tools			Operating Systems		
Visual Studio Flex Eclipse Xcode NetBeans	Apache IIS Subversion Git	Drupal Joomla! Adobe Photoshop Adobe Flash	Microsoft SQL Server Microsoft Office Microsoft Access FileMaker	Windows XP Windows Server 2003 Windows 2000	Mac OS X Linux AWS – EC2 HP-UX

Education

Bachelor of Arts in Computer Science Kalamazoo College Acquired college credit while still in high school.

William Rainey Harper Community College Post-graduate studies in math and science.

References

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