

Michael Macasek

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PROFILE

I am pursuing the opportunity to lead a team of dedicated engineers, creating software that delivers delight to its users. I am seeking a position, which will allow me to maintain my technical expertise with bleeding edge technologies while continuing to augment my project management skills.

EXPERIENCE

Senior Software System Engineer, The MITRE Corporation, Bedford, MA 2007-Present

Utilizing: Ruby, Ruby on Rails, iPhone Development, Objective-C, Java, J2EE, Struts, Spring, Apache, Mongrel, Capistrano, AJAX, Javascript, Dojo Toolkit, Scriptaculous, Prototype, HTML, CSS, SQL, and more.

Technical Lead on several active corporate wide and customer oriented web applications, prototypes, and open source initiatives. Actively participate in all aspects of software design and engineering including initial requirements gathering to the delivered product. Design and implement cutting edge web applications to meet customer needs. Developed and implemented overall system architectures, data models, UI design, and functional designs. Lead technical staff and mentor new and junior employees.

Developer, LimeSurvey – THE Online Survey Software 2007-2008

Utilizing: PHP, CakePHP, Apache, SQL, AJAX, Javascript, Dojo Toolkit, Scriptaculous, Prototype, HTML, and CSS

Developer on LimeSurvey (limesurvey.org), an Open Source Project hosted on SourceForge.net. Currently leading development of system redesign for LimeSurvey2.0.

Software Engineer II, Teradyne Inc, North Reading, MA 2006-2007

Utilized: .NET, ActiveX, ATL, C#, C++, C, COM, Perl, VB, and VBScript

Develop and maintain software for inline circuit testing equipment. Participate in architecting next generation software solutions utilizing the .NET framework. Developing UI and data model components for next generation software using C#. Maintain legacy software. Shipped several successful software patches and Phase 1 of the next generation software.

Developer, The Assistments Project (WPI), Worcester, MA 2004-2005

Utilized: AJAX, Apache Tomcat, CSS, HTML, JAVA, Javascript, JSP, MySQL, Oracle, PL/SQL, and SQL

Maintain and enhance web based Intelligent Tutoring System that supported approximately 200 to 500 students per day for Worcester, MA middle and high schools. Design and implement new Web Applications to further enhance current system using AJAX and JAVA. Participate in system architecture design. Assist in Oracle administration. Managed aspects of the project, including: UI design, database design, runtime, teacher tools, and core data objects. Mentor for new team members. Observed class usage of system to evaluate the success of the UI designs.

Network Administrator, CEO People Helping People, Wilkes-Barre, PA 2002-2004

Utilized: C++, FoxPro, SQL Server

Monitor and troubleshoot the company network. Develop support tools. Develop and maintain websites; both intranet and internet. Troubleshoot PC issues. Maintain documentation. Database Administration.

Tutor, Wilkes University, Wilkes-Barre, PA 2001-2003

Tutored students in a variety of computer science courses.

IT Services Intern, SalesPlus CorNet, Stroudsburg, PA

2000

Supervised several major projects, including company wide software upgrades for a company of approximately 1200 users. Assembled, monitored, and maintained company's information system equipment. Responded to help requests. Assisted in the exploration of new technologies for company wide use.

Y2K Support Team Intern, SalesPlus CorNet, Stroudsburg, PA

1998-2000

Managed Y2K Team and Interns. Reviewed all client code (C++, C, and VB) for Y2K related bugs. Examined testing documentation, databases, and verification tests for any date miscalculations. Reviewed company owned servers and software for possible Y2K issues. Reported all findings to the appropriate department for correction.

EDUCATION

Worcester Polytechnic Institute, Worcester, MA
Masters of Science in Computer Science, 2005

Wilkes University, Wilkes-Barre, PA
Bachelor of Science in Computer Science, 2002

SKILLS

Programming Languages/Frameworks: Ruby on Rails, Ruby, iPhone Development, Objective-C, HTML, Javascript, AJAX, Dojo Toolkit, Scriptaculous, Prototype, CSS, SQL, PL/SQL, JAVA, JSP, C/C++, C#, .NET, Python, Scheme, and Assembly.

Operating Systems: OSX, Linux, Windows

Database: MySQL, PostgreSQL, Oracle

PUBLICATIONS

Razzaq, Feng, Heffernan, Koedinger, Nuzzo-Jones, Junker, Macasek, Rasmussen, Turner & Walonoski. **Blending Assessment and Instructional Assistance**. In Nadia Nedjah, Luiza deMacedo Mourelle, Mario Neto Buroges, and Nival Nuesde Almeida (Eds). *Intelligent Educational Machines within the Intelligent Systems Engineering Book Series*. pp. 23-49. (<http://www.isebis.eng.uerj.br>). Springer Berlin / Heidelberg.

Turner T.E., Lourenco A.L.N., Heffernan N.T., Macasek M.A., Nuzzo-Jones G. (2006), **The Assistment Builder: An Analysis of ITS Content Creation Lifecycle**, The Florida Artificial Intelligence Research Society, Florida, USA.

Macasek, M (2005). **Towards Teachers Quickly Creating Tutoring Systems**. Master thesis. Worcester Polytechnic Institute.

Razzaq, L., Feng, M., Nuzzo-Jones, G., Heffernan, N.T., Koedinger, K. R., Junker, B., Ritter, S., Knight, A., Aniszczuk, C., Choksey, S., Livak, T., Mercado, E., Turner, T.E., Upalekar, R, Walonoski, J.A., Macasek, M.A., Rasmussen, K.P. (2005) **The Assistment Project: Blending Assessment and Assisting**. *The 12th Annual Conference on Artificial Intelligence in Education 2005*, Amsterdam

Turner, T.E., Macasek, M.A., Nuzzo-Jones, G., Heffernan, N.T., Koedinger, K. (2005). **The Assistment Builder: A Rapid Development Tool for ITS**. Poster in the *12th Annual Conference on Artificial Intelligence in Education 2005*, Amsterdam

Turner, T.E., Macasek, M.A., Nuzzo-Jones, G., Heffernan, N.T., Koedinger, K. (2005). **The Assistment Builder: A Rapid Development Tool for ITS**. Poster in the *12th Annual Conference on Artificial Intelligence in Education 2005 Workshop on Adaptive Systems for Web-Based Education: Tools and Reusability*, Amsterdam

ACHIEVEMENTS

Eagle Scout - 1997