

# Michael Hamrah

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## Profile

Software architect and hands-on developer adept at building complex yet scalable systems leveraging agile principles. Proven success in both startup and large enterprise environments.

## Areas of Expertise

- Expertise of enterprise and application architecture with practical knowledge of both event-based and service-orientated architectures leveraging various design patterns to build flexible, well written code leveraging technology at all levels of the software stack.
- Expert knowledge of C# and .NET, including API and class design, multi-threaded programming, reflection, dynamic code, and various other aspects within the .NET framework. Expertise in web development using ASP.NET MVC and WCF along with Windows services for long running queue-based applications; both leveraging unit-test backed continuous integration practices.
- Front-end development mastery with javascript, html and css including ajax heavy web applications. Expertise with jQuery including client/server interaction, templating, and dom manipulation along with css3 and html5. Knowledge of cross-browser support and downgrading techniques.
- Advanced data development work with Sql Server including stored procedure/database optimization, data modeling, Sql Service Broker, indexed views and various ORM tools. Experience with the Solr search engine along with the nosql data stores CouchDb, MongoDB and Redis.
- Proven agile leader with adopting and refining both Scrum and Kanban best practices. Leading developers and business stakeholders in a true lean/agile environment. Awareness of balancing short-term wins with long term focus to build truly adaptive systems.
- Leadership in technology including architecture strategies, strategic development for business needs, team management, mentoring both junior and senior developers, problem solving, conflict resolution and crisis management.
- Working knowledge of Ruby and dynamic programming, including Ruby on Rails and Event Machine, along with Rspec, various gems, and integration with nosql datas-tores.
- Extensive experience with performance optimization and production debugging at all levels of the application stack-networking, database, code bottlenecks and multithreading issues, enterprise logging and monitoring, and client side optimization with html and javascript. Hands on experience with virtualization strategies and cloud based environments with AWS and Rackspace.

## Work Experience

### Getty Images

*Director, Software Engineering*

2007-Present

- Report to the VP of Technology and lead a twelve person team in architecting and developing solutions for the Getty Images Sports, News and Entertainment division. Responsible for driving technology for Getty's fastest growing segment, with tools used globally by photographers, editors, sales, partners and executives to manage all editorial content.
- Architected a web-based workflow portal using ASP.NET MVC (started with beta, now on MVC3) using SOA principles allowing users to easily manage various systems in a cohesive setting. Architecture features asynchronous communication for long-running tasks, a multi-tier architecture, MVC Areas for codebase management and various jQuery goodies for a smooth user experience where time-to-market is essential.
- Application architecture includes various n-tier applications developed using Domain Driven Design paradigms, glued together with IoC containers (Unity) and backed with various unit tests via Moq. Service-Orientated applications feature JSON and SOAP WCF-based services written with .NET 4.0 for cross-platform integration (ruby and java). Systems feature Sql Server including Service Broker for queue based processing, with search powered by Solr and

CouchDB for specific functionality suited for nosql solutions.

- Engineered a highly scalable automated asset distribution system delivering 1.7+ million images per day via ftp or http. System features dynamic code generation to support extremely fast calculation to route images based on any number of rules within seconds of receipt. Also supports metadata management, image processing, extensive tracking and is designed for elastic scalability.
- Work closely with various business units, including VPs, Executives, Architects, Project Managers and other Development teams to come up with both business workflow and technical solutions for Getty Images. Drive agile principles in an ever improving process to operate more efficiently.

**MediaVast, Inc.** *Acquired by Getty Images for \$200 million in February 2007.*

*Director, Software Engineering*

2004-2007

- Worked closely with CTO, Software Architect, and other executives in defining and developing overall software strategy, design, and business process modeling for the startup. Focused on the web stack and ensuring public facing websites are properly built and maintained.
- Lead development under the Software Architect for an in-house digital asset management system designed using a custom MVC framework (.NET 1.1/2.0) including a server control library, data tier, application tier and theme engine written in C#. The framework was used in development of all MediaVast web applications including WireImage.com, which averaged 800,000 page views and 100,000 unique visitors per day.
- Responsible for overseeing other developers, problem solving growth and infrastructure issues, defining specifications and requirements, enforcing standards, and making decisions on the software development process of the team.
- Development lead for consumer products and video for WireImage.com, which brought Flash video and custom built Ajax infrastructure to WireImage.com during the infancy of these technologies.
- Collaborated with senior personnel to define specifications and nonfunctional requirements for all development initiatives. Brainstormed various solutions and evaluated course of action for product development. Worked with Systems Engineers to support deployment and maintenance of various websites and back end applications.

## Education and Activities

- Vassar College - *Bachelor of Arts, Computer Science, 2002 - Poughkeepsie, New York*
- Adventures in HttpContext blog at <http://michaelhamrah.com/blog>
- Interests include photography, golf, skiing, cooking, backpacking/hiking, and yes - programming.