

# Michelle Steigerwalt, Web Developer

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CONTACT INFORMATION Michelle Steigerwalt (Phone and Address Redacted for Web) *Phone:* *E-mail:* msteigerwalt@gmail.com *Web:* http://msteigerwalt.com

SUMMARY My specialization is the architecture and implementation of advanced object-oriented solutions, primarily using PHP5 and JavaScript. I have over ten years of experience with web technologies and have been working as an independent consultant since 2003.

SKILLS (LANGUAGES) PHP (8 years), JavaScript (11 years, 4 years object-oriented), MooTools (core developer, 3 years), MySQL (8 years), (X)HTML (12 years), CSS (7 years), RSS (4 years), XML (6 years), ActionScript (3 years), Ruby (3 years), Haskell, LISP, Python, Perl, Objective-C, C++ (1 year each).

SKILLS (SOFTWARE) Linux (command line and root-level server administration), Apache (6 years), Photoshop (9 years), Flash (8 years), vi/Vim (4 years), Git (2 years), Subversion (3 years), OSX (3 years), iPhone SDK (1 year), Microsoft Office, Open Office.

SKILLS (MISC.) Object-oriented architecture, database design, web framework design, ORM design, technical writing, developer training and mentoring. All code has been hand-written since 1997.

PROJECT HIGHLIGHTS **How We Really Feel** **Rails Rumble, 2009**  
*Systems Architecture, UI Design, JavaScript, MooTools, ActionScript*

This project was rapidly implemented during a weekend competition using design documents and screen mockups developed over the course of several weeks. Worked extensively with the graphic designer to streamline user interaction and application flow, providing wireframe mockups and suggesting refinements and optimizations as necessary. During the contest phase, took ownership of the development of the main user interface, a dynamic music player presented to the user in JavaScript and HTML.

**Today We Did** **2009**  
*PHP5, MySQL, REST, Twitter API*

The challenge of this PHP5/MySQL project was to create a service able to provided a dynamic, personalized experience with the end user without requiring any direct authentication. To accomplish this, I utilized a REST-based framework I had previously designed and extended it to work directly with the Twitter service. An innovative user verification model was then developed, relying on key unique features of the Twitter platform. The resulting data was then categorized using context parsing and stored in the local database.

**Why I Deserve a Scholarship** **2008-2009**  
*PHP5, MySQL, RabidCore, REST, API Integration, Team Lead*

As the team lead for this video contest site build on top of PHP5 and MySQL, I architected and implemented a lightweight yet expandable solution under significant time constraints. Worked with junior level developers, overseeing code commits to ensure quality and security while designing and implementing this video upload and distribution framework. Seamlessly integrated data model layer to both the MySQL

object-relational mapping layer and the video access layer. Creation of the video access layer required extensive “reverse-engineering” of a mostly undocumented REST API.

**RabidCore, RabidRunner**

**2008-2009**

*Systems Architecture, PHP5, MySQL, ORM, MVC, Unit Testing*

RabidCore is a full ORM package and web framework using PHP5 on top of MySQL. My goal was to consolidate and streamline work on individual client projects. While encompassing fewer than ten classes, the framework includes database integration, object mapping, models, querying, templates, controllers, dynamic class loading, and many other features. To ensure product reliability, I also created a dynamic unit testing framework with support for exporting to various output formats.

**Site Construct 2**

**2006-2007**

*Systems Architecture, PHP5, MySQL, JavaScript, MooTools, CSS, HTML*

Worked with a small team of consultants to define the broad technological requirements and mechanics of this multi-enterprise level content and e-commerce solution built on top of PHP and MySQL. I was the primary architect of client-side functionality, including JavaScript components and communication protocols between browser and server. Later, the project was divided into functional segments, to be outlined in more detail individually. Worked with the other segments’ developers to define boundaries and interactions between each component. My responsibilities included the template engine, the client-server gateway, and the control layer. This involved categorizing and delegating tasks to junior developers while implementing the more advanced structures independently. When the project was finished, I assisted other application teams throughout the division in adopting APIs I had developed.

ADDITIONAL LINKS

- <http://msteigerwalt.com/hire>
- <http://www.linkedin.com/in/msteigerwalt>
- <http://www.github.com/Yuffster>