Nate Mow / Software Engineer

Contact Information	natemow@gmail.com, 202.553.4000
Primary Expertise	Back-end Development and Architecture (LAMP, Drupal)
Secondary Expertise	Front-end Development and Interface Prototyping
Tertiary Expertise	Project Management
Industry Experience	11 years

Expertise / Qualifications

Development Frameworks	PHP 4.x – 5.x, CodeIgniter, Kohana, CakePHP, Symfony (v1 - 2), Zend, PEAR, Drupal 5.x – 7.x, WordPress 2.x – 3.x, .NET 1.0 – 3.5 (bilingual in C# and VB.NET), Classic ASP, ColdFusion 4.x – 5.x, JavaScript, HTML, CSS.
Development Libraries	jQuery + jQuery UI, SASS, Compass and Foundation gems, 960gs, Prototype + Script.aculo.us, Dojo + Dijit, Google Maps, Analytics and AdWords APIs, Facebook API, Twitter API, PayPal Payment Gateway, Payflow Pro, Authorize.net, ABCpdf.NET, pdf995, iMIS iBridge.
Development Environments	NetBeans, Eclipse, PhpStorm, Zend Studio, Visual Studio .NET 2000 – 2010, Coda, Firebug, Navicat, MySQL GUI tools, SQLyog, Toad, SQL Server Management Studio, Enterprise Manager, Query Analyzer, Profiler.
Data Technologies	MySQL 4.x – 5.x, SQL Server 2000 – 2008, Oracle 9, XML, XQuery, Xpath, SOAP, REST APIs, ADO.NET, Access, SQL, T-SQL, PL/SQL. Stored procedures, UDFs, triggers, linked servers, cursors, index optimization, fulltext search functions, SQL jobs.
Server Technologies	Apache, memcached, APC, Varnish, IIS, Port80 ISAPI modules for IIS, BIND, Microsoft DNS, DHCP and SMTP, COM+, Active Directory, Visual SourceSafe Server, Subversion, Git, Plesk and Webmin installation and configuration, Bash shell scripting, Cron.
Additional Software	iMIS 10.x – 15.x, Ablaze, netForum, vBulletin, Vanilla, FogBugz, JIRA and Confluence, SugarCRM, activeCollab, VMware Fusion and Workstation, XAMPP, MAMP, Git, SVN, Visual SourceSafe, Jmeter, Selenium, Vagrant, Adobe Photoshop, Illustrator and Captivate, Microsoft Office, Visio and Project, OpenOffice, QuickBooks.
Operating Systems	Red Hat Enterprise, CentOS, Fedora, Debian and Ubuntu Linux distros, FreeBSD, Mac OS X, Windows 7, XP, 2000. Windows Server 2000 , 2003 and 2008.

Experience / History

Lead Application Developer
Interactive Strategies
Washington, DC
08/10 – present

Architected, developed and supported a wide variety of Drupal and MVC-based sites for public sector, political and non-profit client base. Served as tech lead on all open source development projects, mentored front and back end developers on Drupal best practices, supported business development team and contributed to the larger Drupal community. Key projects included:

- **NPR** – Complete front and back end development of a multisite Drupal instance to serve client's Satellite Distribution Division.

- **wwfscience.org** – Architected and served as lead developer for a custom knowledge-sharing portal to serve international field scientist audience. EntityFieldQuery used exclusively for data retrieval. "Totem" code base open sourced on d.o. and presented at local Drupal meetups.

- **appdevelopersalliance.org** – Complete front and back end development of public site as well as a custom collaboration portal. Initial release completed in 8 weeks, in time for unveiling at CES tradeshow.

- **scoutscoop.com** – Complete front and back end development of an intranet to serve global trend scouts employed by The Limited Brands holding company. Developed custom Drupal modules to handle faceted search via Views API, executive itinerary management leveraging Google Maps v3, newsletter and email notification requirements. Developed custom sub-themes and jQuery animations to meet UX requirements. Features presented at local Drupal meetups.

- **infinityqs.com** – Complete front and back end development for a leading QC software company. Developed custom Drupal modules, sub-theme and jQuery animations.

- **Internal** – Developed new company site, integrated to SugarCRM and Facebook, managed and configured Amazon EC2 instances and Rackspace hosting environments.

Director of Technology
Rock Creek Strategic Marketing
Chevy Chase, MD
04/10 – 8/10

Served as sole internal technical point of contact and SME in support of new media initiatives across a variety of federal agencies. Provided estimates and technical recommendations to internal project management and executive teams, developed functional specifications for external development teams and provided direct front and back-end development support to projects as needed. Key projects included:

- **teach.gov** – Developed Drupal theme and custom jQuery plug-in for homepage carousel. Implemented gzip compression and Boost module to increase Drupal performance. Developed ETL routine using namespaced RSS feeds to import data in to Drupal. Worked directly with ED stakeholders to establish functional specifications.

- **letsmove.gov** – Developed WordPress theme and leveraged WP API to integrate blog posts to site templates. WP Pods development to meet custom content type requirements. Created custom jQuery plug-in for homepage carousel. Worked directly with FLOTUS stakeholders to establish functional specifications.

- **Internal** – Installed/configured secure SVN server on Amazon EC2, trained staff on proper usage. Implemented ticketing system to track progress of external dev vendors. Implemented and customized SugarCRM to support business development team.

Front-end Developer
AKQA
Washington, DC
12/09 – 02/10

Served as a short-term contract developer, augmenting internal team's capacity for work on a major client project. Worked with designers, project managers and developers to establish interface requirements and estimates. Leveraged Dojo toolkit to create custom drag-and-drop functionality and implemented AJAX calls where appropriate. Key projects included:

- **usps.com** – Developed accessible, standards-compliant templates using JSP, XHTML, CSS, Dojo and Dijit. Resolved 508 compliance and usability issues per QC team's direction.

Principal
10 Notes
Washington, DC
12/07 – 12/09

Self-employed. Provided development and creative services to a variety of non-profit, association and startup clients. Responsibilities included account and resource management, requirements gathering, technical architecture, front and back-end development, systems administration, systems analysis, business development and ongoing strategic and technical consultation. Key projects included:

- **sistertosister.org** – Developed custom Drupal theme and modules to support campaign objectives. Worked with SMEs to establish PHI-driven formulas and content presentation logic and developed modules accordingly; adhered to HIPAA guidelines at the hosting and application tiers.

- **ilovepickles.org** – Developed custom Drupal theme, and module to authenticate against AMS (IMPak) and sync user profile data with Drupal database. Multi-site instance of Drupal deployed to support client's clients.

- **adduci.com** – Developed Drupal Zen sub-theme and CMS workflow using CCK, Views and Content Profile modules.

- **uhousing.com** – Developed site using custom PHP, MySQL, and Google Maps API. Implemented suggestive search features using jQuery. Used PEAR and cURL multi libraries to batch geocode records against Google Maps API.

- **gemkitty.com** – Worked as a front-end RoR developer for an ecommerce site. Created wireframes and screens comps to illustrate application flow. Leveraged Prototype library to implement AJAX-driven shopping experience.

- **betterthankate.com** – Designed and developed site using Symfony and Prototype. Created AJAX-driven poll, contest and carousel features.

- **innsofcourt.org** – Managed development project deliverables, performed usability testing and worked closely with client's IT vendor to support hosting environment and AMS upgrades.

- **Internal** – Created proposals, project schedules and functional specifications to support clients and business development initiatives. Participated in technical discussions on ASAE listservs, identified/pursued partnership opportunities and new staff resources.

Director of Technology
Lucidea
Washington, DC
06/06 – 12/07

Managed project deliverables, schedule, staff resources and application architecture, delivering projects on time and within the allocated budget. Served as project manager for up to 5 concurrent ventures. Performed requirements gathering, function point analysis, use case documentation and test execution. Worked closely with the executive team to set client expectations, avoid scope creep, reduce risk and improve client perception, as well as define overall company goals and strategy. Key projects included:

- **myaila.aila.org** – Designed UI and architected multi-tier solution using C#, SQL Server and Microsoft's Enterprise Library. Managed and tested development team's work on middleware refactoring.

- **planning.org/calendar** – Developed multi-tier event calendar and event registration system using C#, SQL Server and hCalendar microformat. Implemented OLTP using Payflow Pro wrapper library. Order and invoice record creation in AMS (iMIS).

- **Internal** – Consolidated, re-configured and documented hosting infrastructure at Verio data center. Created proposals, project schedules and functional specifications to support clients and business development initiatives.

Technical Lead
Lucidea
Washington, DC
12/04 – 06/06

Served as technical lead and project manager for COTS integrations, ecommerce and CMS applications. Made strategic recommendations to senior management, clients and third-party vendors, and drove major enterprise development efforts that included system integrations, data conversion and .NET development. Provided technical documentation, recommendations for new hires and offshore resources, performed code audits, mentored junior developers and streamlined internal processes to improve the team's overall effectiveness. Key projects included:

- **planning.org/apastore** – Architected and developed multi-tier application using C#, AJAX.NET, SQL Server and Microsoft's Enterprise Library. Developed and documented ETL process and libraries to integrate back-office software (Acumen, a 4D client/server application) and worked closely with vendor to establish technical SOP for other clients. Implemented OLTP using Payflow Pro wrapper library.

- **innsofcourt.org** – Architected and developed chapter management system using C#, AJAX.NET, SQL Server and Microsoft's Enterprise Library. Integrated Lyris database using web services, integrated AMS (iMIS) via custom middleware library, leveraged API to integrate with BO Enterprise XI server. Implemented per-chapter OLTP using PayPal's name/value pair interface.

- **ahiphiwire.org** – Architected and developed custom CMS and theming system using C#, SQL Server, and Microsoft's Enterprise Library. Integrated proprietary XML content feeds to CMS (PRNewsWire, LexisNexis). Created multi-threaded newsletter tool to process preference-based email subscriptions.

- **aila.org** – Served as lead developer for custom CMS implementation using VB.NET and SQL Server. Integrated CMS to custom AMS using SQL linked servers, integrated vBulletin forum application using PHP and MySQL stored procedures.

Senior Developer
Information Concepts
Herndon, VA
03/04 – 12/04

Worked in project teams of 3-10 developers, coordinated project builds and deployment for non-profit and government clients. Duties included .NET coding, architecture collaboration, guiding junior developers, and interfacing directly with clients and internal project managers to define scope and deliverables. Provided weekly status reports to management and clients detailing milestones, risks and issue resolution. Key projects included:

- **connect.pbs.org** – Architected and developed multi-tier program management application using C#, SQL Server, Active Directory and third-party forum software. Full CRUD account management in Active Directory using direct LDAP queries. Leveraged COM+ to implement atomic transactions across the system.

- **PBS** – Program Reporting Dashboard created to support executive OLAP requirements. Converted data from FileMaker Pro to SQL Server, implemented ROI calculations using stored procedures and UDFs to determine program value across market segments.

- **IRS** – Case Management System to support corporate auditors in the field. Developed WinForms using C# and ensured data compliance using third-party XSDs. Developed InfoPath forms to post data via web services to SharePoint server.

- **goiam.org** – Developed Oracle PL/SQL routines to implement SSO across multiple systems. Developed system interfaces using VB.NET and Crystal Reports library.

Web Developer
Optical Society of America
Washington, DC
08/01 – 03/04

Developed and supported web applications using Classic ASP, ColdFusion and VB.NET running under IIS and SQL Server. Provided guidance and advice to the Webmaster, extensive documentation and was the primary developer on multiple systems serving internal and external users. Key projects included:

- **osa.org** – Designed and developed membership join/renew application using Classic ASP and SQL Server. Implemented OLTP using VeriSign COM library and integrated system to AMS (Ablaze).

- **OSA** – Developed meeting registration system using ColdFusion 5 and SQL Server. Implemented OLTP using VeriSign COM library and integrated system to AMS (Ablaze). Achieved $1M+ transaction volume in the first year.

- **intranet.osa.org** – Designed and developed company intranet using VB.NET, SQL Server and Active Directory.

- **workinoptics.com** – Developed job seeker and employer portals using Classic ASP and SQL Server. Implemented email notifications using stored procedures and SQL Mail. Implemented OLTP using VeriSign COM library.

Education / *Credentials*

Drupal Community
Washington, DC
2011 – present

Participated in and presented at local Drupal meetups and events, attended DrupalCons, performed project application reviews on drupal.org, contributed modules and maintained issue queues (username: natemow).

MCP
Thomson Prometric
Washington, DC
2007

Microsoft Certified Professional.

MCAD
Thomson Prometric
Washington, DC
2004

Microsoft Certified Application Developer.

ColdFusion Developer Track
Figleaf Software
Washington, DC
2002

Bootcamp that included course material on custom tags, modules, CFScript, server administration and best practices associated with ColdFusion development.

Oracle Developer Certification
Rockwell University / Anteon
Fairfax, VA
2001

Independent career training to become a Certified Oracle Application Developer. Earned credit towards a Master's degree in Computer Science.

Bachelor of Science
University of Evansville
Evansville, IN
2000

Graphic Design and Mass Communications.

Code Samples

Various code samples (old and new) available for review at:

https://drupal.org/user/1564666
https://github.com/natemow/samples