

# MICHAEL R. BAGNALL

(571) 527-9375 - Alexandria, VA - mrbagnall@icloud.com - <https://www.michaelbagnall.com>

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SENIOR PHP/DRUPAL ARCHITECT, TECHNICAL LEAD & SYSTEM ADMINISTRATOR

*A relentless problem solver, applies analytical, design and technical skills to design, develop and troubleshoot custom internet systems. Effective, hands---on system administrator with outstanding success in building, managing and maintaining full LAMP based systems both in physical, virtual, cloud and container based technologies. Extensive background in open source content management frameworks including Drupal and Expression Engine as well as customized development using proprietary and open source frameworks. Skilled with MySQL and PostgreSQL database systems.*

## PROFESSIONAL EXPERIENCE

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**ITCON SERVICES – WASHINGTON, DC**

**NOVEMBER 2015 - PRESENT**

**Technical Lead/Senior Drupal Developer.** Responsible for architecting custom Drupal-based solutions for government clients including the United States Department of Agriculture. Also responsible for systems management including full LAMP stack support and integration across a load-balanced system. Development of custom Drupal modules for specific application needs including USDA Food Quiz and calorie calculations based on age, sex, weight, and height. Development of Docker based systems including contributions to enterprise level Docker platforms. Construction of custom containers and systems using Docker Composer.

**Source Control Technologies:** Git (Bitbucket/GitHub), Team Foundation Server

**Programming Platforms:** PHP 5 & 7, XHTML, JavaScript, SQL, JSON, Symfony, Drupal 7/8

**Operating Systems:** Windows 7, Windows 10, Linux Systems, Mac OS X

**Technologies Used:** Docker, SOLR, Memcached, Redis, MySQL, PostgreSQL, Docker Composer

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**MASTERCHANNEL, LLC – NASHVILLE, TENNESSEE**

**MAY 2015 – NOVEMBER 2015**

**Senior electronic commerce architect.** Responsible for architecture between Drupal and external systems such as Magento and Parse notifications. Also responsible for architecting next generation electronic commerce platform. Numerous contributions to Drupal Core in terms of bug fixes and enhancements to both Drupal 7 and Drupal 8 core platforms on Acquia Cloud and Site Factory.

**Source Control Technologies:** Git (GitHub/Bitbucket)

**Programming Languages:** PHP 5, XHTML, JavaScript, SQL

**Platforms/Operating Systems:** Macintosh OS X, Linux Systems

**Internet Standards:** XML/REST, HTTP/SSL, XHTML/CSS, SMTP, MIME, CGI

**Technologies Used:** Magento, Drupal, Drupal Commerce, iOS Notifications, Parse

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**HIGHWIRE PRESS, INC. – REDWOOD CITY, CALIFORNIA**

**JUNE 2013 – MAY - 2015**

**Software System Architect – Books Platform.** Responsibilities include the architecture, maintenance and development of high end Drupal based publication web sites for scholastic journal

and book publishers. Additional work with Drupal framework developing Drupal modules and features to bring rich, content intensive interactive experiences. Experience building CTools content types, custom modules, Views handlers and plugins as well as a variety of installation profiles.

**Source Control Technologies:** Git (GitHub)

**Programming Languages:** PHP 5, XHTML, JavaScript, SQL, JSON

**Platforms/Operating Systems:** Macintosh OS X, Linux Systems

**Internet Standards:** XML/REST, HTTP/SSL, XHTML/CSS, SMTP, MIME, CGI

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**VANDERBILT UNIVERSITY MEDICAL CENTER**

**AUGUST 2011 – JUNE 2013**

**Health Systems Analyst and Programmer II.** Responsibilities include custom Drupal applications for custom projects and management of Drupal based interface for proprietary database system. Developed custom integrations with Shibboleth single sign on technologies and external XML feeds for PubMed publications and other government health agencies. Building tools to manage data sources for adjudication and classification of public documents.

**Source Control Technologies:** Git (GitHub)

**Programming Languages:** PHP 5, XHTML, JavaScript, SQL, JSON

**Platforms/Operating Systems:** Macintosh OS X, Windows XP/7

**Internet Standards:** XML/REST, HTTP/SSL, XHTML/CSS, SMTP, MIME, CGI

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**SOUTHCOMM, INC.**

**MARCH 2010 – AUGUST 2011**

**Senior Developer** responsible for all aspects of web development for high profile web sites for Nashville area publications including the Nashville Scene, Nashville City Paper, Her Magazine, Nfocus Magazine and LEO Weekly. Extensive work in developing custom built Drupal technologies including electronic commerce, statistic tracking and building custom SMS applications for publications using the Tropo API. Additional work on caching systems for high traffic Drupal and PHP based web sites utilizing Varnish.

**Programming Languages:** PHP 5, XHTML, JavaScript, SQL, JSON

**Platforms/Operating Systems:** Ubuntu Linux Servers, Macintosh OS X, Windows XP/7

**Internet Standards:** XML/REST, HTTP/SSL, XHTML/CSS, SMTP, MIME, CGI

**Software:** Adobe Photoshop, Adobe InDesign, Microsoft Word

**Database:** MySQL Server

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**DIGOME, LLC., NASHVILLE, TN**

**MAY 2009 – MARCH 2010**

**Software Developer** tasked with development of web sites and electronic commerce platforms for high-profile clients. Managed LAMP server systems on virtual server and Amazon EC2 cloud technologies. Produce custom metrics and reporting tools to assist sales in presenting company results to prospective clients. Engaged in extensive development with Drupal and Kohana frameworks including custom themes and modules. Built and maintained customer support infrastructure using Kayako. Worked and customized an Interspire ecommerce platform for the Country Music Hall of Fame.

**Programming Languages:** PHP, Perl, XHTML, JavaScript, SQL

**Platforms/Operating Systems:** RedHat Linux, Macintosh OS X, and Windows XP/Vista/7.

**Internet Standards:** XML/REST, HTTP/SSL, XHTML/CSS, SMTP, TCP/IP, MIME, CGI

**Database:** MySQL

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**W1 Wellness**

**March 2009 – May 2009**

**Software Developer** tasked with contributing components to a wellness based platform using standard PHP without a framework. Demonstrated some work to convert the framework-less system to a CodeIgniter system unsuccessfully.

**Programming Languages:** PHP, PHP (CodeIgniter)

**Platforms/Operating Systems:** RedHat Linux, Macintosh OS X

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**Athlon Sports, Nashville, TN**

**July 2006 – March 2009**

**Senior Software Developer in special projects.** Worked to design spirit based contests surrounding school cheer programs and photography competitions amongst models in a sports environment. Also produced photo shoots for web content and produced software to drive and power the web content for Sideline Spirit and Swisher Sweeties. Also worked on fantasy sports games and score updates and tracking from a standardized sports feed. Also built high power VMware load balanced servers using EXSI technology, SAN services as well as master and slave databases.

**Programming Languages:** PHP, Perl, XML, JavaScript, SQL

**Platforms/Operating Systems:** RedHat Linux, Macintosh OS X,

**Internet Standards:** XML/REST, HTTP/SSL, XHTML/CSS, SMTP, TCP/IP, MIME, CGI

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**Vision 3 Interactive Media**

**August 2004 – July 2006**

**Senior Software Developer, Architect.** Developed in-house electronic commerce system used by Fortune 500 companies to sell business to business promotional gear to vendors, employees and other persons of interest. System also used in Business to Consumer including physical, electronic and ticketed goods. Custom development of web sites built in standard HTML as well as Perl, PHP, Javascript over a MySQL and flat file database systems. Managed web, email, DNS and full LAMP stack systems.

**Programming Languages:** PHP, Perl, XHTML, JavaScript, SQL

**Platforms/Operating Systems:** RedHat Linux, Macintosh OS X, and Windows XP.

**Internet Standards:** XML/REST, HTTP/SSL, XHTML/CSS, SMTP, TCP/IP, MIME, CGI

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**ThinkLink Learning**

**March 2004 – August 2004**

**Junior PHP Developer tasked with code improvements and maintenance of existing system.** Software based on state-standards assessments and practice tests given to middle and high school students. Involved calculations of correct answers. Revamp of existing code to meet higher standards.

**Programming Languages:** PHP

**Platforms/Operating Systems:** RedHat Linux and Macintosh OS X

**Software:** BBEdit IDE

**Database:** MySQL,

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**PowerTools Productions, LLC**

**May 1997 – March 2004**

**Senior Software Developer, Architect and Business Co-Owner.** Developed in-house electronic commerce system used by Fortune 500 companies to sell business to business promotional gear to vendors, employees and other persons of interest. System also used in Business to Consumer including physical, electronic and ticketed goods. Custom development of web sites built in standard HTML as well as Perl, PHP, Javascript over a MySQL and flat file database systems. Managed web, email, DNS and full LAMP stack systems including one custom game metaserver for high profile client.

**Programming Languages:** PHP, Perl, XHTML, JavaScript, SQL, C++, C

**Platforms/Operating Systems:** RedHat Linux, Macintosh OS X, and Windows XP

**Internet Standards:** XML/REST, HTTP/SSL, XHTML/CSS, SMTP, TCP/IP, MIME, CGI

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## EDUCATION AND AFFILIATION

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**KAPLAN UNIVERSITY, DAVENPORT, IA**

**DECEMBER 2007 – JUNE 2010**

Bachelor of Science Degree in Computer Science with an emphasis in programming. Graduated Cum Laude.

**YORK COLLEGE OF PENNSYLVANIA, YORK, PA**

**AUGUST 1989 – MAY 1994**

Bachelor of Arts Degree in Speech Communication

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## SAMPLE OF WORK

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<http://read.dukeupress.edu> - Books and Journals site for Duke University

<http://ebooks.geoscienceworld.org> - Books and Journals site for GeoScienceWorld

<http://www.erspublications.com> - Books ecommerce site for European Respiratory Society

<http://www.brightonclose.com> - Housing association web site.

<https://www.choosemyplate.gov>

<https://www.whatscooking.fns.usda.gov>

<https://www.cnpp.usda.gov>

<http://drupal.org/user/350597> - Drupal.org profile of contributed works.

<https://bitbucket.org/mrbagnall> - BitBucket Public Code Repository

<https://github.com/ElusiveMind> - GitHub Public Code Repository

<https://hub.docker.com/u/mbagnall> - Docker Hub public repository