

# MICHAEL R. BAGNALL

Alexandria, VA – [mrbagnall@icloud.com](mailto:mrbagnall@icloud.com)

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SENIOR DRUPAL WEB SOLUTIONS ARCHITECT, TECHNICAL LEAD, SYSTEM ADMINISTRATOR,  
SYSTEMS ARCHITECT, CERTIFIED SCRUM MASTER, CERTIFIED SCRUM DEVELOPER

*A relentless problem solver with over 20 years of experience applying analytical, design and technical skills to develop and troubleshoot complex internet systems. Effective, hands on system administrator with success in building, managing and maintaining full LAMP based systems in physical, virtual, cloud and container-based technologies such as Docker, Kubernetes, Rancher, Ansible, Vagrant and Puppet. Extensive background in open source content management including Drupal 7 & 8, WordPress and Expression Engine as well as customized development using Symfony, Doctrine, NodeJS, Perl and other frameworks. Skilled with MySQL, PostgreSQL, Elasticsearch and Apache SOLR database systems.*

## PROFESSIONAL EXPERIENCE

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### ITCON SERVICES – WASHINGTON, DC

NOVEMBER 2015 - PRESENT

**Web Solutions Architect.** Responsible for architecting custom Drupal-based solutions for government clients including the Food Nutrition Service, Food Safety Inspection Service, Supplemental Nutrition Assistance Program, Office of Hearings and Appeals, Rural Development and ChooseMyPlate.gov within the United States Department of Agriculture. Also worked for Corporation for National and Community Service. Responsible for systems management including full LAMP stack support and integration across a load-balanced system. Development of high visibility applications and features by way of custom PHP development in Drupal 7 and Drupal 8. Development of enterprise Docker based development and production systems including contributions to custom government hosting programs. Construction of custom containers and systems using Docker Composer. Site and data migrations from custom systems to Drupal platforms and also provided migrations between Drupal 7 and Drupal 8.

Constructed entire hosting platforms consisting of Linux based, containerized and orchestrated solutions in cloud environments utilizing Rancher, Kubernetes and Docker and extended existing orchestrated systems for United States Department of Agriculture. Performed critical service maintenance and feature build out on USDA Enterprise Web Application Platform Service (eWAPS).

Performed migrations from custom systems into Drupal including migration of electronic commerce platforms to Drupal Commerce. Construction of custom plugins and modules for Drupal 7 and 8 using Drupal's hook-based architecture. Support the deployment process, including review of logs for errors after deployment to all environments. Ensure third-party libraries are downloaded and maintained. Integrated with third party single sign-on services such as Azure Active Desktop as well as USDA eAuthentication using LDAP, Siteminder and SAML protocols.

Research, develop, test and implement product backlog items (user stories and defects), including analysis and reporting, on the prioritized project backlog within schedule. Certified Scrum Master and Certified Scrum Developer. Acquia Certified Developer – Drupal 7 and Drupal 8.

Assisted in business development activities such as proposal planning, reviewing and providing technical writing. Part of the leadership team that works to plot the course of the company, provide mentorship to other developers and interact with clients both in meetings and one on one. Skilled

at interacting and developing relationships with customers and vendors. Increased the number of clients from two to 19 in four years while overseeing staff growth to 13 developers.

**Certifications:** Certified Scrum Master, Certified Scrum Developer, Acquia Certified Developer – Drupal 7, Acquia Certified Developer – Drupal 8, United States Government Public Trust Clearance

**Source Control Technologies:** GIT, SVN, CVS (Bitbucket, GitHub, GitLab)

**Development Platforms:** PHP, Javascript, ReactJS, SQL, Symfony, Drupal, NodeJS, CSS, Gulp

**Operating Systems:** Windows, macOS, RedHat, Ubuntu and Alpine based Linux Systems.

**Technologies Used:** Docker, SOLR, Memcached, Redis, MySQL, PostgreSQL, Docker Composer, ProboCI, Rancher, SALT Stack, Kubernetes, Ansible, Vagrant, and Puppet.

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**ZIVTECH/PROBOCI, PHILADELPHIA, PA.**

**NOVEMBER 2017 – PRESENT**

Senior Developer and Advisory Board member for the direction and updates of the ProboCI continuous collaboration platform. Worked to keep code current with existing versions of NodeJS and develop new features in accordance with platform roadmaps and developing stand-alone open source solutions that can be use independently of the SAAS based model. Also worked to develop custom Drupal and Linux System based solutions using OpenKM and Tesseract.

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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, 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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**STANFORD/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

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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.

**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

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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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## **RELEVANT WORK & CERTIFICATIONS**

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### **Speakerships:**

DevOps Summit: Bay Area Drupal Camp – 2019: ProboCI – Continuous Containerized Testing

### **Certifications:**

<https://certification.acquia.com/user/1652681>

<https://www.scrumalliance.org/community/profile/mbagnall2>

### **Code & Work Repositories**

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

### **Project Examples**

<https://www.usda.gov>  
<https://pubs.nationalservice.gov>  
<https://www.nationalservice.gov>  
<https://www.vistacampus.gov>  
<https://www.rd.usda.gov>  
<https://www.michaelbagnall.com>  
<https://www.probo.ci>  
<https://www.choosemyplate.gov> - Choose My Plate - USDA  
<https://www.imaginedragonmusic.com> - Artist web site

Also willing to provide access to private Bitbucket and Github projects so extensive examples of my software development and systems management can be reviewed.

## **METHODS OF CONTACT**

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The preferred way of contacting me is through my email address at the top of this resume. My phone number is available on request however given the nature of my schedule, it is best to contact me via email to coordinate a phone conversation. Additionally, I can be found on LinkedIn where I welcome new contacts:

<https://www.linkedin.com/in/mbagnall/>