Damon Haley

DEVOPS/Drupal DEVELOPER

Drupal-based web application developer with more than 15 years in Unix infrastructure engineering with an emphasis on building automated, secure and scalable quality assurance tools in a devops environment.

- Full-stack web developer
- Small to enterprise-scale host and DevOps tool architecture and deployment
- Experience with continuous integration, MVC/ORM frameworks, and OO design
- Expert analytic mind scaling technology and processes to meet business needs

Experience

2014-Present **Drupal Developer**, *National Renewable Energy Laboratory*, Golden, CO.
Communications Services Bureau:

- Did custom front-end and back-end billable Drupal application development for 28 sites.
  - Created 3rd party API feeds data importation processing of OSTI XML files.
  - Created Mysql Stored Procedures/Triggers for real-time scoring of 2016 Solar Decathlon project. Wrote php scripts to create data files to feed live web reports.
  - Wrote Drupal custom module to transfer high resolution 72 dpi (retina standard) images from Flickr API into Drupal database for field guide generation.
- Created self-documenting literate dev-ops scripts using Emacs org-mode and textExpander to diagnose and fix environmental inconsistencies.
  - Hardened security and automated Drupal deployments with Jenkins.
- In conjunction with Platform Engineering, architected scalable Redhat Enterprise Linux 6.6 environment ensuring "No unique snowflakes" for all systems.
  - Using Ansible, helped create recipes for reproducible hosting including php 5.6 environment with Zend Opcode Caching and Apache Solr backend.
- Rectified major infrastructure improvements including improving Drupal host service utilization, and making sites more scalable and responsive using php acceleration.
  - Working with security team, helped to make Drupal hosts more secure and consistent.
  - This led to tightening of Apache and php.ini settings.
  - SSL was implemented on all sites.
- Investigated and helped resolve infrastructure issues including Apache Solr indexing, Ajax blocking by web application firewall, reverse-proxy load-balancing mis-configuration and performance issues caused by 3rd-party bots.
- Spearheaded the moving of Drupal sites to AWS and implementation of continuous integration deployment environment.

2010-2014   **Web Application Developer**, *University of Colorado*, Boulder, CO.
Strategic Relations/Office of the Vice Chancellor for Research:

- 2011 - 2014 Drupal application development
  - Lead dev on 5+ custom Drupal sites inc. the Colorado Shakespeare Festival (CSF).
    - CSF Site in prod one week after 1st client demo meeting critical ticket sales deadline.
      - Programmatically created 80 percent of content form legacy site using migrate module allowing for theming, bug fixes and design refactoring to happen ASAP.
  - Wrote custom modules/drush extensions in popular campus installation profile.
    - This profile was used to launch hundreds of full-featured campus departmental sites.
  - Maintained development/live environments, including git tracked features deployed with Jenkins including blackbox/JavaScript enabled behat test features.
    - By implementing continuous integration tool-sets I was able to lessen technical debt, making turn-around to the client faster and less risky.
- 2010 - 2012 Php and JavaScript development
  - Crafted and maintained contest management administration system that dynamically generates contest web applications enabling over 15 annual University funding contests, conference, administrative tracking and collaborative web sites.
    - Homegrown content management systems supported cross-departmental contests and collaborative sites and features such as aggregate reporting target-driven email.
  - Wrote custom php and perl scripts for database-driven mail-merge projects, data massage, interactive polls and ad-hock reports and provided technical support.
    - Programming work assisted department personnel in email marketing campaigns and polls and provided critical data for accounting and administrative purposes.

2005-2010   **Data Center Analyst**, *HP Enterprise Services*, Broomfield, CO.
Work for Oracle, Sun Microsystems, StorageTek (client accounts):

- Architecting cross-platform data warehouse:
  - Architected and implemented with the Sun Security team, an end-to-end system perl audit tracking database cloud running on 5,000 Solaris hosts, which captured and recorded all user shell commands and usage trends.
    - Sun was able to reduce access to root role in data centers, saving money from unnecessary outages and increasing security throughout their internal infrastructure.
- Performed extensive 64-bit Mysql memory, database index and performance tuning in a production environment using the InnoDB engine, having over 10 million records, inside a secure Solaris container on a 8 core UltraSparc-T1 CPU with 8 GB of ram.
  - Saved Sun Security money as they were able to use an existing box instead of purchasing new hardware as I tuned the database to run with limited resources.
- Led Sun software developers to diagnose and fix major technical hurdles and bugs, writing fixes in assembly language and using a custom IPC harness to efficiently transfer Gigabytes of data between IPC processes on all Sun clients. Compiled, packaged and shipped three versions of perl to all Sun internal systems with intelligent wrapper to dynamically load and unload libraries depending on architecture.
  - Prevented derailment of major project while producing minimal system impact.
- Integrated ORM framework for database access, using performance-optimized joins.
  - Mangers were able to request custom system and user activity reports on the fly.
- Multi-platform Trusted Host and Unix system administration automation:
  - Developed perl Net::SSH execution system for automation and data collection.
    - Enabled secure reporting on server statistics (disk usage, security vulnerabilities).
  - Scripted perl software to pull from a MS-Active Directory server and automatically generate LDAP entries, pushing Unix password daily to all STK NIS domains and non-NIS HP-UX, Linux and Solaris hosts. Maintained mail alias web tool, controlling Sendmail alias entries.

Competencies

Highly proficient with

languages	PHP, PERL, HTML, DRUPAL, BASH, MYSQL, SIEVE
technologies	GIT, BEHAT, DRUPAL MINK EXTENSION, PHP CODESNIFFER, XDEBUG, DOVECOT, POSTFIX, APACHE, OSX, LINUX, MYSQL, EMACS, VIM, PARALLELS, HOMEBREW, GPG, OPENSSH, TMUX, JIRA, DVORAK LAYOUT
platforms	PANTHEON, AQUIA CLOUD, AWS, KALTURA

Have experience with

languages	JAVASCRIPT, ELISP, JQUERY, CSS/SASS/SCSS, BOURBON, SMARTY, NPM, GRUNT, COMPASS, WORDPRESS
technologies	APACHE SOLR, TIKA, JSON, AJAX, BOOTSTRAP THEME + FONT AWESOME, WEB FONTS, S-EXPRESSIONS, ORACLE, ORM, LATEX, WINDOWS 8, ZSH, RSYNC, OPENLDAP, VIRTUALBOX, SENDMAIL, X11, SELENIUM
API	FLICKR, TRELLO, NREL, OSTI

Minor experience with

languages	JAVA, C, C++, POSIX, NODE.JS, RUBY, PYTHON
technologies	DOCKER, WORDPRESS, SYMFONY, MONGODB, SCRUM over XP, AGILE

Devops experience

GNU/Linux	Debian, Ubuntu & Red Hat(6,7) Linux, LVM mirroring, Ansible, Chef, Jenkins, KickStart, Citrix ICA	Sun Microsystems software	Jumpstart, Directory Sever, Cluster, Solaris, ZFS, SAM QFS, Dtrace, dtlogin, vlan
Networking	TCP/IP, Bind, dns, iptables, squid, reverse proxies, autofs, ssh, vnc, xauth, XDMC, Samba, UDP, NFS, NIS, SNMP, IPMP	Security	Tripwire, Nagios, WireShark, tcpdump, nmap, arp-scan, sar.p

Education

- o Ba., Journalism/Computer Information Systems
  - o Metropolitan State College of Denver, CO

Activities & awards

- o Contributed patches to Drush 7, maintain emacs Drupal IDE plugin, contributor to emacs and github FOSS community.
- o 2004, 2005 Colorado Press Association 1st place Best feature writing and Best column writing.
- o Free Software Foundation member, 2013, 2014 DrupalCon.