

# JOSH BEAUREGARD

DEVOPS ENGINEER

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## SUMMARY

DevOps Consultant for Harvard Information Technology, Academic Technology, service provider.

DevOps Department Head and creator for the past 4 years. Created tools to make developers' work-flow more efficient by eliminating repetitive tasks. Created test driven development automation software.

Wrote company development guidelines. Tuned applications servers to be in 90th percentile speed wise. Technical educator and liaison between developers and project managers as needed.

## PREVIOUS TECHNICAL ROLE

Web applications Developer with over 19 years of web application development experience. Experienced in Drupal versions 4.6 - 8 development including custom module development. Hands on experience in every part of the Software Development Life Cycle including: scope building, wire frames, design, theme integration, front and back end, web/mobile application development, server building, tuning and long term administration including down time rescuing. Effective problem solver who works with users and managers to accomplish goals.

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## SKILLS

Continuous Integration	Jenkins (and even Hudson), TravisCI
Configuration management	Ansible, Chef, Puppet
Stack Management	Terraform, AWS Cloud Formation
Integration Testing	ServerSpec, Cucumber/Behat
Vitalization, Containers	Docker, Vagrant
Other Software	Nginx, Apache, Behat, Git, Subversion, Bazaar, CVS, Drupal, WordPress, node.js, Ruby on the Rails, MySQL, Mongo DB.
Languages	PHP, Ruby, Shell scripting, Python, HTML, XHTML, HTML5 CSS/SASS/LESS JavaScript, jQuery.
Cloud Vendors	AWS, Digital Ocean, Rackspace, Linode.
Operating Systems	Linux, Mac OS X.x, Windows (cygwin)

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## PORTFOLIO

Application Servers	Shared, managed Omeka hosting cluster for Harvard DiTF and Library Departments. WordMapper bookmarklet nodejs server. <a href="#">Ezesoft</a> , <a href="#">Cornerstone Software</a> , <a href="#">Piston</a> , <a href="#">Knectar</a> , <a href="#">Citisoft</a> , <a href="#">Forsyth Institute</a> , <a href="#">Schools For Children Inc</a> , <a href="#">Mass Energy/Rhode Island Power</a> , <a href="#">Juxtapid</a> , Anheuser-Busch Inbev TapWiser app server
Website Applications Contributed To	<a href="#">HMS Systems Biology Department</a> , <a href="#">AIER</a> , <a href="#">The Penguin Place</a> , <a href="#">Beer Wine Making</a> , <a href="#">Speaking of Springfield</a> , <a href="#">Knectar.com</a> , <a href="#">medicinehunter.com</a> , <a href="#">Riverbend Animal Hospital</a> , <a href="#">Jack Daniels</a> , <a href="#">Schools For Children/Dearborn Academy/Seaport Academy/Leslie Ellis</a> (Drupal multi Site), <a href="#">Mass Charter Schools</a> , <a href="#">Mass Energy/Rhode Island Power</a> (Drupal multi site), <a href="#">Umass Humanities and Fine Arts department sites</a> (Drupal, Domain Access), <a href="#">The Global Issue</a> , <a href="#">Crocker Communications</a> , <a href="#">MIT Deshpande Center</a> , <a href="#">Kavli Institute at Columbia</a>

## PUBLICATIONS

## Blog Posts

- [Selecting default input format filtered text drupal 7 better ux](#)
- [‘linkit target’ module released drupal.org](#)
- [Streamlining deployments beanstalk](#)

## Interviews

- [Interviewed on NPR’s Market Place](#)

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## EXPERIENCE

### GreenPages Technology Solutions

Senior DevOps Technical and Cultural Engineer

1/17 - Current

- Helping to plan and design overall release pipeline via Jenkins, Docker, CloudFormation.
- Developed Chef cookbooks for Docker Data Center (swarm mode) back bone, for cross platform deployment on AWS and VMWare platforms.
- Interfacing with a number of teams to provide unity and further development process.
- Leading mentoring efforts with Mob and Pair programming.
- Working on Gluster Cluster Automation to create persistent storage across Docker UCP members.
- Developed RSpec based integration testing for AWS Cloud Formation pipeline.
- Contributed back to the Chef community as part of the work.

### Harvard University

DevOps Consultant

1/16 - 12/17

- Designed, implemented, and maintained a production-level cloud environment for developing and deploying client applications for Technology Services.
- Collaborated with other IT groups, establishing cloud environment in Amazon AWS
- Built Vagrant and Docker, containers using configuration management tools Ansible, Chef and Puppet, combined with community provided or custom base images.
- Created processes for application deployment from development to test to production
- Assisted in the development of web applications and other technological solutions for teaching and learning.
- Partnered with software engineers to code in a variety of application stacks and frameworks, including Django and LEMP based applications.
- Work with a variety of databases such as MySQL, and PostgreSQL.
- Identified, set up, and established appropriate technologies, such as wikis and/or blogs, for pedagogical use.
- Collaborated with a variety of service providers across the University, strategic programs, and committees within IT.
- Help establish best practices and processes for the deployment of innovative and educational technologies at client.
- Implemented Mob Programming Dojo's in development and Operations teams.
- Built a managed hosting service for [Omeka](#) based sites.
  - Instances are controlled via a Google spreadsheet, using the Google spreadsheets API.
  - Provisioning and instance setup is done via Ansible.
  - Servers are run on AWS.

### Knectar

Technical Director/ Drupal Oriented DevOps/Open source Evangelist

8/11 - 11/15

- Part of team to develop high availability server stack for SaaS applications.
- Designed and Implemented and maintain Highly Available LEMP And MongoDB stack for Pistonapp.com
- Lead Developer/DevOps for various Harvard Medical School department sites, all developed using Drupal as a custom platform for development. Built Linux, Nginx PHP MySQL based stacks via Chef provisioning tool for all site to run on.
- Worked with a team of front end developers and project managers to create an HTML5 SASS based start theme that uses all modern semantics.
- Maintained a variety of server stacks, across, bare metal and cloud plat forms, including, AWS, Rackspace, Digital Ocean, and VMWare.
- Led the adoption of Test and Behavior driven development, using Selenium and Behat.
- Led the migration from Subversion to the git version control system. Over 50 repos migrated.
- Administered company production and staging servers (Cent OS, Debian, Ubuntu Linux), via Chef scripts and manual builds.
- Performed Server/Software integration tuning via MySQL, Memcached, APC, Varnish, and Nginx Micro-Caching.
- Developed/maintained custom hosting stack configuration based in Linux, Nginx, MySQL and PHP. written in Chef
- Led the technical training of new developers and project managers.
- Provided technical support to project management in areas of product development and site discovery.
- Prepared software developed for clients in a way that it could be released as open source resources on drupal.org or github.com as well as meeting the clients’ specific needs.
- Rescued Drupal back end for an android app for L’Oreal.
- Developed and maintained client and internal Drupal web sites.
- Technical consultant on the development of the Drupal site jackdaniels.com
- Provided technical guidance to the Drupal developers and project managers of the hms.harvard.edu development team.
- Maintained ongoing dialog and technical assistance/training to internal Drupal developer at Harvard Medical School in areas of custom module development and version control.
- Performed internal technical search engine optimization analysis and provided SEO solutions.
- Wrote technical documentation for clients and in house use of Drupal applications.
- Maintained Knectar’s presence in the Drupal open source world, by leading and tracking local Drupal users group via speaking and helping to plan local Drupal Camps (MA, CT and CO).

- Developed Drupal websites. Developed reusable web scraping tools.
- Knectar is a mostly waterfall oriented shop; interacted with project managers via Lighthouse, Google Docs, Skype and in person

## Last Call Media (Formally: Left Click Advanced)

Web site Developer, System Administrator

9/10 - 6/11

- Administered company production and testing servers (Ubuntu, Linux), including maintaining gitosis/Hudson (now Jenkins) based testing server.
- Developed and maintained client Drupal web sites, including the install and configuration of Point of Sales software.
- Performed search engine optimization (SEO).
- Trained clients how to use web interfaces in various content management systems from the perspective of search engine proficiency.
- Led company in-services on Version Control Systems and Drupal Development.
- Led one on one training with site builders and designers on all aspects of Drupal.
- Participated in AGILE SCRUM meetings in person, via Skype, IRC, and Google Chat.
- Managed Tasks via Redmine and spreadsheets
- Used Photoshop to extract assets and build Drupal themes.

## Sanguis Development

Website Developer, Technician, Technical Instruction, Sole Proprietor

12/03 - 1/11

- Designed, developed, and maintained all client web sites and servers using a variety of software platforms including php/mysql based Drupal, WordPress, Zen Cart, OS Commerce Phorum and custom Ruby on Rails applications as well as other open source and proprietary software solutions depending on the clients requests and needs.
- Performed regular search engine optimization (SEO) consulting and report authoring.
- Repaired and modified client computers and network.
- Performed training of clients various content management systems, from a perspective of search engine proficiency.
- Participated in many different formats of client meetings for giving status reports.
- Built custom Drupal 6/Ubercart based CRM, Proposal Generation, Ticketing and Billing system.

## Steiger UK/Youth With A Mission London, England

Communications Manager

3/02 - 5/04

- Developed and maintained web site, adding frequent updates. Made both a static and later a dynamic PHP based version of the site.
- Handled all enquiries to organization received via email.
- Setup, maintained, and repaired all computers in the organization.