

Josh Beard

IT Professional / DevOps / Sysadmin

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Summary

IT professional with a strong background in systems administration, cloud, and DevOps with over 12 years of experience and collaborations with more than a hundred teams across hundreds of projects.

Experience

Lead DevOps Engineer with Apogee Engineering, LLC

September 2015 - Present · Remote

Contracted to Science Analytics and Synthesis (SAS) at the US Geological Survey.

- Lead and perform many of the group's most challenging technical projects.
- Collaborate with over a dozen teams to deliver applications to the USGS science community.
- Responsible for the architecture and implementation of the IT platform for over 50 USGS products.
- Migrated over 50 products from on-premise and on-VM deployments to AWS deployments, using Docker and native AWS services.
- Composed CI/CD pipelines for hundreds of projects, improving consistency through automation, empowering product teams, and reducing friction for releasing software.
- Author and maintain hundreds of pages of robust documentation for "all things DevOps" and project-specific documentation, utilizing Markdown and adopting a "docs-as-code" workflow.
- Accelerate and helped plan long-term IT strategy and the details of execution.
- Reduced costs through architecture improvements while reducing the server count by more than 45%.
- Work with hundreds of codebases spanning several languages and product teams.
- Instruct colleagues on a variety of subjects, including Docker, AWS, and Terraform.
- Implemented and maintained configuration management (Puppet, Ansible) across hundreds of servers.
- Developed new HTTP architecture, utilizing CloudFront, Nginx, and S3.
- Contracted with Comso, Inc. *April 2015 - September 2015.*

Primary technology used: Linux, GitLab, Docker, AWS, Terraform, Ansible, Puppet, Python, Packer, VMware vSphere, Jira, Artifactory, Bamboo, BitBucket, Tomcat, Ruby, Nginx, Traefik, Apache.

Sr. Professional Services Engineer at Puppet Inc.

September 2013 - April 2015 · Denver, CO (Remote)

- Consulted on Puppet products and DevOps practices for a wide range of customers, including some of Puppet's largest customers and most sophisticated engagements.
- Instructed dozens of classes on Puppet products to organizations and general public.
- Contributed Puppet modules and other tools for community use and used within Puppet's commercial products.
- Developed Puppet, Ruby, and shell code for extending products and automating processes.
- Consulted on pre-sales, scoping of work, and post-sales support.
- Earned high marks for customer satisfaction, team work, and professionalism.
- Puppet Professional Certification, 2013

Primary technology used: Linux, Puppet and Puppet Enterprise, Git, GitLab, Packer, Vagrant, Jira, Tomcat, Ruby, Shell, Nginx, Apache, WebSphere.

Linux/Unix Systems Administrator at Douglas School District

January 2010 - September 2013 · Box Elder, SD

- Deployed and administered school district Linux and FreeBSD servers and services for thousands of users.
- Advised and collaborated with district IT staff and administration on technology adoption and integration.
- Improved integration across network services for over 2,000 students, faculty, and staff.
- Administered network file systems, HTTP, DNS/DHCP, Firewalls, Monitoring, Logging, Mail (SMTP, POP3, IMAP, filtering, webmail), and other services for all district users.
- Improved workstation provisioning through automation, deploying several hundred new workstations a year.
- Introduced configuration management (Puppet) to manage servers.
- Developed code and packages to automate several processes, including the bulk provisioning of users (staff, students)

Primary technology used: FreeBSD, Linux, MacOS, Puppet, Apache, Nginx, BIND, Shell, Ruby, KVM, pf, Sophos, Graylog, Nginx, Icinga, NFS, Postfix.

Web Developer at Douglas School District

September 2011 - September 2013 · Box Elder, SD

- Implemented WordPress as a content management system for the district's websites.
 - Increased web performance through improvements to code and server configuration.
 - Developed HTML, CSS, and PHP in support of district websites.
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Tier II Technical Support at Apple, Inc.

October 2008 - January 2010 · Colorado Springs, CO

- Provided end-user support to customers and business using Apple products; especially Apple's computers and macOS.
 - Consistently received high marks for customer satisfaction and troubleshooting.
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Signal Support Systems Specialist in the US Army

August 2006 - October 2008 · Fort Carson, CO

- Supported Army battalion network and communications equipment, including workstations, tactical radios, GPS, crypto, network services, and multimedia systems.
 - Responsible for establishing battalion communications quickly in deployment scenarios (satellite link, network, VOIP, radio communications, battlefield monitoring systems).
 - Trained colleagues, senior leadership, and end-users.
 - Among first members of battalion staff at Fort Carson and integral part of initial stand up of IT operations and communications.
 - United States Army Signal School Honor Graduate, 2007. Fort Gordon, GA.
 - Served with distinction and was awarded early promotion.
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Skills

Key Platforms, Systems, Software

Ansible, Apache, Artifactory, AWS (*EC2, RDS, IAM, S3, Elasticsearch, ECS, EFS, CloudFront, Lambda, Route53, Secrets Manager, Load Balancing, CloudFormation, CDK, misc*), Bamboo, BitBucket, Cloud, Debian/Ubuntu, DigitalOcean, Docker, Elasticsearch, FreeBSD, GitHub, GitHub Workflows, GitLab, GitLab CI/CD, Graylog, HAProxy, Jira, LXC, MariaDB/MySQL, MongoDB, Nginx, Packer, Postfix, PostgreSQL, Puppet/Puppet Enterprise, RedHat/CentOS, Sensu, Serverless, Terraform (*AWS, VMware, DigitalOcean, Proxmox, misc*), Tomcat, Traefik, Unix Shell, Vagrant

Development

CI/CD, Bash and Shell, Python, Ruby, PHP, Git, Atlassian, HTML/CSS, Everything is Code