Anurag Mohanty
Systems Engineer

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Technical

AWS	Ruby	Ruby on Rails	Graphite	Squid
Chef	Bash	Sinatra	Nagios	Artifactory
Puppet	Perl	Play Framework	New Relic	Mcollective
MySQL		Dropwizard	ELK	Squid
MongoDB				Kickstart

Experience

Amplify Education   *December 2012 to Present*
Systems Engineer

- Built deployment pipeline for Java and JRuby web-applications.
  - Wrote guidelines and documentation on application configuration and monitoring.
  - Designed criteria for build-manifests, which describe sets of applications that have been tested together and can be released through the deployment pipeline together.
  - Extended Mcollective as a deployment mechanism by using RabbitMQ, resulting in dependable and scalable push button deployments.
  - Maintained Jenkins server and agents.
  - Built Artifactory architecture which included S3 storage back-end, MySQL on Amazon RDS, and cross-region Artifactory replication for disaster recovery.
- Responsibilities include maintaining and monitoring hundreds of servers on AWS that communicated with 20,000 tablets.
- Designed the AWS architecture, including VPC/subnet layouts.
- Designed git-based Chef workflow/architecture orchestrated by Jenkins.
  - Implemented role cookbooks to improve cookbook versioning and dependency management across a growing organization.
  - Authored Knife plug-in to automate host termination including cleanup of Chef, Nagios, EC2 instances, Route 53 records, EBS volumes, and Elastic IPs.
  - Collaborated with developers to write Chef cookbooks to ensure applications were properly configured.
- Held production readiness reviews with developers to ensure applications met monitoring and configuration requirements.
- Administered Nagios and wrote Nagios checks as part of application on-boarding and on-going application monitoring.
- Built and deployed RabbitMQ infrastructure.
  - Wrote ruby scripts that test end to end availability of RabbitMQ cluster and sent usage data to Graphite.
  - Provided support and expertise to development team in dealing with RabbitMQ.
- Administered ElasticSearch cluster which served as back-end to our logging infrastructure.
- Developed imaging workflow for customer hosted appliance for unattended provisioning at vendor's factories.
- Built HTTP content filtering farm on AWS using Dansguardian and Squid.
- Member of daily on-call rotation that is responsible for resolving outages reported by customers to Tier 3 and

of a weekly on-call rotation that is responsible for uptime of critical services.
- Automated migration from Exchange to Google Apps using a combination of GAM and custom scripting.

Technical Environment: AWS, Chef, Java, Play, JRuby, MySQL, Git, Stash, Jenkins, Artifactory, Graphite, Nagios, ELK, Kickstart.

Columbia University Libraries   *January 2010 to December 2012*
Systems Engineer

- Managed all Apple Macintosh environments through Columbia University Libraries.
  - Built Imaging + Deployment pipeline for OSX machines using Deploy Studio.
  - Tested and deployed Munki as a solution to manage and update software across environments.
- Wrote Ruby on Rails applications as front-ends to various back-end systems.
  - Created a front-end for Munki so that support engineers can manage software through a web portal.
  - Developed an Ruby on Rails application to create help desk tickets.
- Documented procedures and best practices for various technical tasks performed by the technology team.
- Wrote Perl scripts to generate reports for librarians.
- Maintained JIRA instance used to track help-desk tickets across Columbia University Libraries.

Technical Environment: Ruby, Ruby on Rails, Perl, JIRA, Oracle Database, Bash, OSX, Munki, Deploy Studio.

Columbia University Medical Center   *June 2007 to December 2009*
Systems Administrator and Programmer

- Authored various patient file management scripts.
- Automated file server backups and data archival.
- Developed VB.NET programs to interface with scanner.
- Wrote programs in VB.Net to automate the process of transitioning from paper records to digital records.

Technical Environment: VBScript, VB.Net, Winbatch.

Projects

1. **Biffbot**
   Biffbot is a ruby library for the Diffbot API.
2. **RubySpark**
   RubySpark is a ruby port of spark.

Education

Bachelor of Science in Applied Mathematics   *2004 to 2009*

University of Massachusetts at Amherst, Massachusetts