Thomas M. Santoyo

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Qualifications

A Software Engineer with nine years of experience designing and implementing solutions for deployments, monitoring, high availability, and failover of applications and websites using the technologies listed below.

- **Languages**: Python, C#, Ruby, JavaScript
- **AWS**: EC2, S3, RDS, IAM, Lambda, Route 53, VPC, ElastiCache, ECS, CodeBuild, WAF, DynamoDB, CloudFormation
- **GCP**: Compute Engine, App Engine, Cloud SQL, Memorystore, Cloud DNS, IAM, VPC
- **Systems**: Docker, Linux, Kubernetes, Ansible, Terraform, Vault, Packer, Nginx, Vue.js, Vagrant, git
- **Monitoring**: Datadog, Elasticsearch, Fluentd, Kibana, Splunk, Graphite, Grafana, Icinga 1 & 2
- **Software**: Okta, CircleCI, OpenVPN, AWX (Ansible Tower), Smallstep, Quay, Artifactory, PyPI, Jira, Confluence, GitHub

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Professional Experience

Blue Lava, Inc   Remote
Senior DevOps Engineer   September 2021 – Present

- First member of the DevOps team, responsible for leading the design of cloud solutions across dozens of production AWS environments.
- Designed and deployed AWS infrastructure via CloudFormation and Boto3, supporting an app stack of Rails, Sidekiq, Postgres, and Redis.
- Developed a CICD pipeline to build app containers, run tests, and deploy them to ECS using CodeBuild and AWS Lambda.
- Improved deployment and build times from 40 minutes to 15 minutes by parallelizing tests and implementing docker caching.
- Implemented Datadog app and deployment logging, configured metrics and alerts, and integrated them with Slack for increased visibility.
- Led a cross team redesign of our WAF solution, considering the requirements of our customers, the organization, and our head of security.
- Led the migration of a legacy app from ElasticBeanstalk to ECS, and designed a CICD process for testing and deploying the app.
- Responsible for backend and infrastructure support for a domain move from blue-lava.net to bluelava.io.
- Responsible for IT, new environment deployment, AWS billing, security updates, and infrastructure upgrades.

XSELL Technologies   Remote
Senior DevOps Engineer   March 2021 – August 2021

- Responsible for designing cloud solutions as part of a three person team across several multi-cloud production environments (AWS and Azure).
- Architected a Kubernetes deployment against Azure Kubernetes Service (AKS) using Terraform.
- Designed a CICD pipeline for building application containers, running tests, and deploying them to Kubernetes using CircleCI.

Kenna Security, Inc.   Chicago, IL
Senior Systems Engineer   June 2020 – March 2021

- Architected and implemented cloud solutions as part of a twelve person team across ten multi-cloud production environments.
- Mentored junior engineers, assisting in both onboarding to the team as well as advancing career expertise.
- Led an immutable infrastructure deployment project using Packer, Ansible, Terraform, Vault, and CircleCI.

Systems Engineer / Site Reliability Engineer   September 2018 – June 2020

- Responsible for maintaining all infrastructure via Ansible, supporting an app stack of Rails, Sidekiq, Resque, Elasticsearch, MySQL, and Redis.
- Configured and deployed four new isolated client production environments, adhering to a strict timeline for each.
- Designed an Okta based SSO solution for authenticating to multiple AWS accounts.
- Developed a Python CLI tool for generating temporary AWS access keys by assuming roles across multiple accounts via SAML.
- Implemented Smallstep, an SSH SSO solution, eliminating the need for copying employee public SSH keys to servers.
- Standardized DNS (Route53 & Cloud DNS) across all production servers, and automated creation and deletion via Ansible and AWX.
- Developed an automated image build process for CentOS 8 using Packer and Ansible, and migrated all production servers with zero downtime.
- Responsible for maintaining monitoring solutions including Datadog and ELK (ES, Fluentd, Kibana).
- Developed a Python tool for cloning Ansible inventories to assist with new client isolated production deployments.
- Developed an application for providing Ruby console access to Kibana.
- Responsible for CICD deployments of applications. Production deployments use Github, CircleCI, and Ansible, and run on merge to master.
- Configured and deployed AWX (Ansible Tower) for running centralized ansible playbooks.
- Migrated all internal Ruby gems to Artifactory.

Balyasny Asset Management LLC - Cloud Engineer - Chicago, IL   February 2018 – September 2018
Trading Technologies International, Inc. - Monitoring Systems Engineer - Chicago, IL   February 2015 – February 2018
Brindley Engineering Corporation - Reliability Engineer - Lisle, IL   January 2014 – February 2015

Education

Bachelor of Science in Mechanical Engineering   **2013**
University of Illinois at Chicago (UIC)   Chicago, IL