David Sumner
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DevOps Architect specializing in IT System Management, Automation, and Security

Career Summary

Senior IT professional with 20+ years of experience in IT infrastructure management and software application delivery. Proven track record

Technical Summary

- Configuration Management, Change/Release/Build Management, System Administration, Support and Maintenance of Enterprise Linux and Windows and expertise in automation, monitoring and remediation using Python and Shell scripts with focus on DevOps tools
- Strong experience in managing the delivery and performance of high-traffic, public-facing web applications running on AWS, Azure and Google Cloud services
- Experience in Linux administration installation, configuration, securing and tuning of Linux
- CI/CD using Git, Chef, Terraform, Docker, Kubernetes and Jenkins
- Experience with Akamai configuration
- Security compliance monitoring and remediation
- Experience in developing Splunk queries and dashboards targeted at understanding application performance and capacity analysis.
- Development of custom code to interface with REST APIs
- Application of Scaled Agile Framework for software development and infrastructure management
- Developing and deploying infrastructure on AWS and Azure

Technical Skills

Cloud Services: AWS (EC2, S3, CloudWatch, RDS, Elastic Cache, IAM), Azure
CI/CD tools: Ansible, Chef, InSpec, Jenkins, Terraform, Kubernetes, Cloudformation and Terraform
Programming: XML, BASH, Perl, Ruby, Python, PowerShell, PL/SQL, JavaScript, HTML
OS Platforms: Linux, Ubuntu, Windows
SCM/Version Control Tools: GIT, SVN, Subversion
Web Service Tools: NGINX, Oracle WebLogic, IIS Server
Database Systems: MySQL, Oracle, SQL Server and ElasticSearch

Experience

JANUARY 2020 - PRESENT
Associate Director of DevSecOps / CivicActions

Supervise a team of DevOps engineers working across multiple projects for US Government clients. Conduct management activities including performance reviews, time and expense review, mentoring, hiring and onboarding. Review practice area budget and make recommendations to executive leadership.

Serve as the lead DevOps engineer for several web applications for the Center For Medicaid Services and the US Department of Agriculture. Work with hosting providers and content delivery networks to meet application performance requirements outlined in SLAs. Work with teams of software developers to oversee code releases, ensure availability of data in accordance with open data policies, analyze system metrics and maintain compliance with SLAs and other regulations.

Create and maintain fully automated CI/CD pipelines for code deployment and AWS infrastructure management using GitHub and Jenkins. These pipelines provide solutions to respond to security vulnerabilities, continuously evolving operational requirements and ongoing security assessments.

FEBRUARY 1998 - NOVEMBER 2010, JUNE 2014 – JANUARY 2020
Cloud DevSecOps Architect / Oracle Corporation

Designed and administered DevOps automation solutions for systems hosted in Oracle Cloud. This included evaluating systems deployed on on-premise, private and public cloud platforms (AWS, Azure, Google Cloud) and migrating them to equivalent Oracle PaaS, IaaS, DBaaS and SaaS offerings.

Blueprinted and deployed infrastructure in a coded manner (infrastructure as code) using Chef, Ansible, Terraform, CloudFormation, Jenkins and Git for configuration management of virtual environments.

Migrated legacy applications into containers managed with Docker and Kubernetes.

Developed applications that fed system logging and application metric data into Elasticsearch to generate summaries and predictions for capacity utilization.

Investigated and responded to security events and potential incidents in accordance with prescribed procedures. Continually examined and improved existing processes to identify security vulnerabilities.

Integrated migrated applications into corporate Single Sign On and Privileged Access Management. Built and deployed tools to monitor and report licensing and security compliance. Built tools for continuous integration and delivery of patches and vulnerability remediation.

Developed Splunk queries and dashboards targeted at understanding application performance and capacity analysis.

Developed remediation tools to rectify issues identified by risk management teams and independent auditors. Worked with networking and security specialists to devise fixes that continuously update the infrastructure to maintain alignment with best practices and secure coding standards. Managed system privileges by maintaining seclists, firewall rules and identity management components. Developed tools and code to perform data mining of logs generated from thousands of client systems to detect acceptable use violations.

Performed incident triage and handling by determining scope, urgency and potential impact thereafter identifying the specific vulnerability and recommending actions for proper remediation. Coordinated restoration of services during major incident events.   Worked with end users and other SMEs to perform root cause analyses.

Served as a Linux system administrator and an Oracle database administrator.

NOVEMBER 2010 – JUNE 2014
Independent Database Consultant / HCDE

Built AWS RDS-based applications to manage operations and monitor performance for multiple divisions serving thousands of students annually.

Provided data migration services to merge student data on legacy systems into new systems.

Developed systems for data archival in compliance with data retention requirements specified by Sarbanes-Oxley, PII, HIPPA and other relevant legal regulations.

Education & Certifications

- Bachelor of Science in Information Technology with Security Emphasis, Western Governors University, Texas