DEVSECOPS ENGINEER
DEEP ROOT ANALYTICS
ARLINGTON, VA

Company Overview

Deep Root is an audience-powered analytics company that: identifies a client's ideal audiences, analyzes how the audiences consume media for optimal advertising, integrates the audiences into platforms for linear, addressable and digital ad delivery, and measures how the audiences are being impacted by paid and earned media.

Our data and technology stack are reflective of our company mission to bring a data-driven approach to television advertising. We work with multiple datasets that qualify as "big data" following the "Four V's" criteria: they are Varied in their layouts, they are large, Voluminous datasets, they have Velocity in that they are frequently updated, and they have Veracity in that they represent the observed behavior of television viewers, advertisers and content. As such, our technology stack relies heavily on cloud services, data pipelines and data science libraries.

Job Description

Deep Root Analytics is looking for a DevSecOps Engineer to work with our engineering lead in building out our established but growing DevOps environment with security integrated from end-to-end. Our technology stack is quickly growing, and the candidate will be responsible for building and orchestrating the deployment workloads. We are looking for someone with demonstrated experience with highly available services, and a handle of the rapidly changing data security requirements and regulations, nationally and globally. Our platform consists of a variety of connected microservices, and the candidate will assist in maintaining vigilance of the security of our software deployment as the first and foremost responsibility, with reliability and robustness a very close second.

As the company services are numerous and occasionally interface with each other, the ideal candidate must be comfortable moving between systems to respond to any issues or incidents. The engineering team is interdisciplinary and rotates tasks throughout the stack so that everyone shares the responsibility for the integrity of the product, but the candidate for this position must be the leader and evangelist in DevOps practices. Strong problem-solving skills and creative thinking are critical to the role, and importantly, the candidate must be curious and hard-working, as we expect them to tackle these problems using their own experience and independent research abilities.

Specifically, the DevSecOps Engineer will be tasked with the following:

- Help monitor the health, stability, and security of our highly available cloud-based infrastructure for every component within our technology stacks.
- Maintain and refine security solutions and threat detection components to iteratively improve the company's security posture.
- Automate the deployment of our software using existing CI/CD methods, update them as necessary, and design playbooks for newly added components.

- Administer the release schedule for new features, ensuring our production software is stable and managing any issues or rollbacks quickly and efficiently.
- Maintain an aggressive security posture through close monitoring of logs and use of AWS security tools like GuardDuty and SecurityHub.
- Monitor and maintain compliance with the security benchmarks from the Center of Internet Security and other audits for infrastructure security, data protection, and vulnerability analysis.
- Manage the installation of the latest stable releases for all technologies used in our deployment while determining and preemptively addressing any breaking changes.
- Perform cost and performance tuning of existing infrastructure components.

Qualifications & Skills

- Bachelor's degree in Mathematics, Computer Science, or related field.
- 2+ years of experience as a DevOps Engineer or equivalent experience deploying and maintaining AWS-based SaaS solutions in a 24/7/365 uptime environment.
- Strong knowledge of cloud security principles and best practices is essential.
- AWS-Certified as SysOps Administrator Associate and Solutions Architect Associate, or DevOps Engineer Professional.
- Proficient in scripting and experience with at least one low-level compiled language.
- 2+ years of experience with Git and a strong grasp of version control concepts.
- Thorough understanding of the software development lifecycle, especially with respect to continuous integration and continuous delivery automation tools.
- Experience building cloud-based networking solutions with an understanding of network topologies and protocols.
- Excellent communication skills, especially when explaining difficult technical concepts to people in non-technical roles.

Preferred Qualifications

- Under-the-hood knowledge of both SQL and NoSQL databases.
- Experience standing-up big data tools, including Spark jobs run in AWS EMR.
- AWS-Certified in specialty areas, especially Security and Big Data.
- Knowledge of Agile concepts and experience working in an Agile environment.

Characteristics of a Successful Candidate

- We are looking for smart, driven, likable and curious people.
- You need to be highly adaptable to a rapidly growing and changing business environment.
- You are a quick learner and problem solver.
- You keep on top of latest developments in field.
- You have an ability and eagerness to constantly learn and teach others.
- You are an exceptional problem-solver and have a self-starter attitude.

Application:

- Please email a resume, sample work product of a system you built, and three references to info@deeprootanalytics.com with the subject line: **DEVSECOPS ENGINEER**. Please be prepared to explain and defend your choices.
- Applicants should be prepared to answer detailed technical questions and be willing and able to take a systems design test administered by Deep Root's engineers.