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**Shreenivas Iyer**

**AWS DevOps Architect**

**AWS Certified, Cloud DevOps Nano Degree, Cockroach DB Certified, Rancher Certified**

**PROFILE SUMMARY**

* Results-oriented and highly skilled AWS DevOps Architect with over 12 years of IT experience.
* Specialized in designing and implementing robust and scalable solutions.
* Adept at leveraging cloud technologies, CI/CD pipelines, and automation tools to optimize deployment processes.
* Proven track record in architecting and managing AWS environments, ensuring high availability, security, and performance.
* Experienced in working with various AWS services like EC2, ECS, S3, IAM, Lambda, Cloud Watch, VPC, Route 53, OpenSearch, Elastic Load Balancing etc.
* Cloud Services: AWS: EC2, S3, Beanstalk, Lambda, ECS, Redshift, RDS, DynamoDB, SQS, SNS, SES, Guard Duty, WAF, Cloud Front, Cloud Watch, Cloud Trail, Cloud Formation, Config, Trusted Advisor, ElastiCache (Redis), VPC, Route 53, API gateway, Kinesis, IAM, Secrets Manager, WAF & Shield, Device Farm, Cost Explorer, Auto Scaling, Systems Manager (SSM).
* Experienced working with Packer to automate cloud machine image creations
* Experienced working with Ansible and Chef as a cloud configuration management tool
* Experienced in working with CI/CD (Continuous Integration and Continuous Delivery) tools like Azure DevOps and Jenkins
* Experienced working with Terraform to create and manage infrastructure to maintain infrastructure as a code

**TECHNICAL SKILLS**

**Cloud: AWS:** EC2, S3, Beanstalk, Lambda, ECS, Redshift, RDS, DynamoDB, SQS, SNS, SES, Guard Duty, WAF, Cloud Front, Cloud Watch, Cloud Trail, Cloud Formation, Config, ElastiCache (Redis), VPC, Route 53, API Gateway, Kinesis, IAM, Secrets Manager, WAF & Shield, Device Farm, Cost Explorer, Auto Scaling, Systems Manager (SSM)

**Configuration Management:**   Ansible, Packer, Terraform, InSpec, Chef

**DevOps Tools:**  Azure DevOps, Jenkins, GitHub Actions, Code Deploy, Docker, Kubernetes, Helm, TeamCity

**Containerization:**   Docker, Kubernetes

**Monitoring Tools:**    New Relic, AWS Cloud Watch, Azure Monitoring

**Operating Systems:**    Windows Server 2016, 2019 and Linux

**Languages:**     Yaml, Json, Java/J2EE, SQL, C, C++, Python, Ruby, JavaScript

**Databases:**    SQL Server, Mongo DB

**Networking:**  VPC, Subnets, Route Table, Internet Gateway, NAT Gateway, VPC peering

**IDE:**                  Visual Studio Code, IntelliJ IDEA

**EDUCATION & CERTIFICATION**

* Bachelor’s in engineering (2003)
* Nano Degree in Cloud DevOps Engineering, Udacity

**CERTIFICATION**

* AWS Certified Cloud Practitioner
* Certified Rancher operator
* Getting Started with CockroachDB

**PROFESSIONAL EXPERIENCE**

**Client: Guidewire Software, Inc. Exton, PA**   **Sep 2021- Till Date**

**Domain: Insurance**

### Role: AWS DevOps Architect

**Responsibilities:**

* Architected and implemented highly available AWS environments, optimizing resource deployment.
* Designed and maintained CI/CD pipelines using Jenkins and Docker for efficient software delivery.
* Implemented Infrastructure as Code (IaC) using Terraform, ensuring scalability and maintainability.
* Orchestrated containerized applications using Kubernetes, improving deployment efficiency.
* Collaborated with AWS support teams to enhance infrastructure efficiency and security.
* Maintain a highly available environment managing multiple AWS accounts - EC2, load balancing, lambda, S3, IAM policies, Buckets ACLs
* Automating cronjobs using Python scripts and Chef / Jenkins.
* Security and compliance tasks based off Prisma high alerts.
* EKS cluster management, Redshift and Aurora management
* Maintain a highly available environment managing multiple AWS accounts - EC2, load balancing, lambda, S3, IAM policies, Buckets ACLs

**Environment:** EC2, S3, RDS, EKS, Docker, Jenkins, TeamCity, Terraform, Chef, Python3, Bash, DataDog, DevOps

**Client: Evidence Partners Inc., Kanata, ON Sep 2020 – Jul 2021**

**Domain: Medical**

**Role: DevOps Lead / Site Reliability Engineer**

**Responsibilities:**

* Led the design and management of AWS cloud infrastructure, employing best practices and implementing Infrastructure as Code (IaC) using Cloud Formation and Ansible.
* Spearheaded initiatives to optimize AWS environments, ensuring reliability, security, and optimal performance.
* Administered EKS Kubernetes clusters, focusing on scalability, efficiency, and streamlined operations.
* Automated patch management processes, ensuring consistent and reproducible deployments.
* Established secure backup strategies using AWS Backup for EC2, EBS, RDS, and S3.
* Implemented AWS security services, including Guard Duty, Inspector, and WAF, contributing to SOC2 audits.
* Played a key role in security incident management, adhering to compliance measures and protocols.
* Emphasized a comprehensive understanding of AWS DevOps architecture principles, with a focus on infrastructure optimization and security enhancements.

**Environment:** EC2, EKS, Red Hat Linux, DataDog, Agile, Guard Duty, Inspector, WAF,Apache 2, WordPress, MongoDB

**Client: Voicemail Tel , Toronto, Ontario Feb 2019- Sep 2020**

**Domain: Telecom**

**Role: DevOps Engineer**

**Responsibilities:**

* Deploying Java, NodeJS and Python projects on EC2 instances using GIT, GitHub, Jenkins, Docker, Kubernetes, Ansible and Terraform
* Installing required plugins and configuring Jenkins for running CI/ CD pipelines
* Automating CI/CD pipelines for Php and Java Applications using Jenkins, Circle CI, Gitflow, Team City
* Working with docker and orchestrating containers using Kubernetes (EKS, GKE, Kops, Kubectl)
* Set up filters to parse logs using ELK stack File beat, Elastic search, Log stash and Kibana
* Deploy application to production servers with zero downtime
* Write scripts using Python and bash to monitor applications, health check of AWS EC2 instances
* Using source code management tools GIT, GitLab and Beanstalk for version control
* Manage 200+ production servers to provide zero downtime on applications
* Set up Apache and Nginx web servers for applications
* Set up Open LDAP and php LDAP admin with web server configured on Apache and automated the whole process with Ansible so that LDAP can be installed on new EC2 instances with no manual set up needed
* Configure Icings to check for critical and warning alerts on systems
* Write Nagios checks using different programming languages to monitor services
* Experience working with HashiCorp Vault for storing secret management
* Cut server cost to 40% monthly by scaling to use GP2 instances instead of IOPS
* Using Atlassian Jira for tickets
* Experience working on AWS Amazon Web Services (EC2, VPC, S3, Elastic IPs, EBS, security groups, Route 53, ElastiCache, RDS, Redshift, Kinesis, Firehose, Elastic Load Balancer, CloudTrail, CloudFormation, Code Deploy, Code Build, Code pipeline, Code star, Amplify) and GCP
* Configured AWS IAM and security groups in public and private subnets in Virtual Private Cloud (VPC)
* Configured Route53 to route traffic between different regions.

**Environment:** Route53, Linux, EKS, VPC, S3, ELB, Kubernetes, Nginx, Team City, CircleCI, Jenkins, ELK, GIT

**Client: The Hillman Group, Toronto, Ontario Sep 2016 - Feb 2019**

**Domain: Manufacturing**

**Role: Site Reliability Engineer / DevOps**

**Responsibilities:**

* On-call support in a high availability large scale production 24/7 environment
* Responsible for automation, scripting/coding, continuous integration, continuous delivery, availability, latency, performance, efficiency, change management, monitoring, emergency response, and capacity planning.
* Create and maintain fully automated CI/CD pipelines for application code and infrastructure code deployment using Jenkins, Artifactory, Terraform, Terragrunt, Docker and scripting languages: bash, batch, PowerShell, groovy, python, Node.js, Java SDK.
* Designed the microservices/Service-Oriented architecture of DTI on AWS by adhering to AWS Well-Architected Framework principles and Cox Automotive Security Policy thereby reducing cost, increasing performance and enhancing security of overall architecture of the project.
* Proficient in using the following AWS services: EC2, S3, Beanstalk, Lambda, ECS, Redshift, RDS, DynamoDB, SQS, SNS, SES, GuardDuty, WAF, CloudFront, CloudWatch, CloudTrail, CloudFormation, Config, Trusted Advisor, ElastiCache (redis), VPC, Route 53, API gateway, Kinesis, IAM, Secrets Manager, WAF & Shield, Device Farm, Cost Explorer, Auto Scaling, SSM. Implemented Secrets Management service EC2 Parameter store (SSM) to keep secrets out of source code and enforcing retrieval of secrets by making secure API calls to Parameter Store at runtime.
* Built and deployed Elastic beanstalk stacks with blue/green environments to break up monolithic app into microservices, improving developer workflow, increasing scalability, and optimizing speed.
* Managed GitHub repositories and permissions, including branching, pull requests and tagging.
* Security services employed: WAF, Shield DDOS, GuardDuty, IAM roles and policies, KMS encryption (at-rest), ACM (Certificate Management), Security Groups, NACLs, NAT gateways, NNE, and TLS for in-transit encryption.

**Environment:** EC2, Redis, blue/green, SNS, SES, Terraform, Docker, Jenkins, Groovy, Config, Trusted Advisor, SSM, IAM

**Client: Veeco, Plainview, New York Jul 2013- Sep 2016**

**Domain: Semi-conductor**

**Role: Linux System Administrator**

**Responsibilities:**

* Provided support with Linux and Solaris operating system to more than 100 users including traders, DBAs and developers Implemented a solid backup and recovery procedure which minimized data loss.
* Improved company website user experience by designing and engineering webservers using Apache, MySQL database with instant replication for global sites, implementing WordPress, phpMyAdmin, interface, PHP, running on Centos 5.8. Configured secure http, for SVN source control, and back-end communication with Progress Database.
* Planned and configured high availability NFS servers using Keepalived for auto-failover running on RedHat 5.6. Deployed and maintained Samba server’s authentication using Ldap, and Active Directory for different departments. Installed and configured Linux servers hosting Oracle 11g on Redhat 6x for use by Human Resources.
* Supported SAN, NAS, Fiber Channel, LUNS, LVM, like EMC ClariiON CX3\_20C using Navisphere Management Console, NetAPP and QLogic.
* Participated in compiling and deploying several business cases, such as business continuity and global high availability. Built multiple server systems and installed into racks. Completed remote repairs involving software solutions and hardware repairs.

**Environment:** LDAP, Linx, Solaris, DBA, Apache, MySQL, PHP, Keepalived, Navisphere, Active Directory

**Client: Beckman Coulter, Inc. on contract, Miami, Florida Jul 2011 - Jul 2013**

**Domain: Medical**

**Role: Information Technology Support Analyst**

**Responsibilities**:

* Provided in-person, remote desktop, and telephone support to over 700 end-users distributed across 33 worksites nationwide. Installed, configured, and supported various software programs on desktops, laptops, tablets, network printer, scanners, and other hardware systems.
* Troubleshot various hardware, login, and connectivity issues, performed virus removal procedures, and pc performance analysis; rebuilt windows desktops to maximize performance as necessary.
* Serviced approximately 100+ customers daily, ensuring requests are processed well within company established deadlines.
* Directly supported senior managers and executive staffers; subsequently created user accounts, ensuring appropriate user permissions are assigned in compliance with established security protocols.
* Escalated severe issues to other technical staff members within IT and third-party vendors when required, based on established service level agreements (SLAs).
* Supported the network team with troubleshooting network outages in remote offices; installed and replaced network equipment (e. G. Network routers, switches), ensuring continuity of operations.

**Environment:** Remote Desktop, SLAs, G network routers, switches, support, compliance, troubleshooting, Windows