Shree Iyer　　　　　　　　**AWS Certified, Cloud DevOps NanoDegree, CocokroachDB Certified, Rancher Certified**
(647) 679-6007
shree@shreevar.com
Mississauga, ON

Senior SRE/Cloud Devops Engineer

PROFILE SUMMARY

- Skilled, driven, organized and detail-oriented 11+ years of IT professional with over 7+ years of experience in Operations, DevOps and Architecture designing, implementing, and managing cutting-edge deployment automation of cloud resources and optimizing mission critical deployments in AWS, leveraging configuration management, CI/CD, and DevOps processes.
- Cloud Services: AWS: 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, Systems Manager (SSM).
- Experienced in working with various AWS services like EC2, ECS, S3, IAM, Lambda, Cloud Watch, VPC, Route 53, OpenSearch, Elastic Load Balancing etc.
- 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
- Experienced in working with container services like Docker and Kubernetes
- Experienced in monitoring the performance of web applications by creating dashboards and alerts on New Relic
- Experienced in working with AWS support teams to review current infrastructure and made plans to improve infrastructure efficiency and security
- Experienced working with version control systems like Git
- ITIL and SOC2 aware: Change Management, Incident Management, Problem Management, SOC2.
- Experience in leveraging configuration management, CI/CD, and DevOps processes using GIT, Jenkins, Docker, Kubernetes, Helm, Ansible, Terraform, TeamCity Python3.
- Proficient in writing technical policies, SOPs and Work Instructions aligned with SOC2 requirements.

TECHNICAL SKILLS

Cloud:	AWS, Cloud Computing, CloudWatch
Configuration Management:	Ansible, Packer, Terraform, InSpec, Chef
DevOps Tools:	Azure DevOps, Ninja RMM, SonarQube, Jfrog, PRTG, Victor Ops, Terraform Cloud, Tenable, N2WS Backup and Recovery, ParkMyCloud, Jenkins, GitHub Actions, CodeDeploy
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
Software Methodologies:	Agile
Web Services:	SOAP, REST
Version Controls:	GIT
Networking:	VPC, Subnets, Route Table, Internet Gateway, NAT Gateway, VPC peering
IDE:	Visual Studio Code, IntelliJ IDEA

EDUCATION & CERTIFICATION

- Bachelor's in engineering
- NanoDegree in Cloud DevOps Engineering, Udacity

CERTIFICATION

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

PROFESSIONAL EXPERIENCE

Client: Guidewire Software, Inc. Mississauga, ON　　　　　　　　　**Sep 2021- Till Date**

Role: Cloud Operations Engineer

Responsibilities:
- 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.
- Cross account IAM role deploying resources across multiple accounts using TeamCity, Terraform and Python3 and bash scripts
- Deploy and maintain monitoring resources - Datadog, Zabbix, CloudWatch
- EKS cluster management, Redshift and Aurora management
- Linux sys admin - maintain production environment uptimes, live kernel patching, weekend deployments and routine maintenance on rotation
- Security and compliance tasks based off Prisma high alerts.

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

---

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

Role: Site Reliability Engineer

Responsibilities:
- Lead scrums for infrastructure
- Bring up and revise AWS infrastructure (Infrastructure as a code
- Configuration Management) using CloudFormation and Ansible.
- Setup and maintain monitors and alerts in datadog for critical system metrics and AWS services.
- Slack and google workspaces integration
- Writing policies, work instructions and SOPs, participating in SOC2 audits for infrastructure,
- security, backups and incidents. Security incident management and CAPA.
- Setup Systems Manager Patch manager and SSM eliminating SSH access and for patching AWS EC2 instances.
- EKS Kubernetes administration and patching nodegroups with latest AMIs, community edition Mongodb replicaset administration, MySQL administration.
- RHEL 7 and 8 system administration - patching, system, crontab, shell scripting, disk mounting, OS upgrades, backups, ssl dumps, EFS.
- Apache webserver administration - setup Apache directives, virtual hosts, LAMP stack administration
- Wordpress corporate website administration.
- Setup AWS Config (NIST 800-53 compliance pack), GuardDuty, SecurityHub, Inspector, WAF, federated login (SSO) for AWS, AWS Change Manager.
- AWS Backup setup, encrypting EC2, EBS, RDS, S3 buckets.
- Setup lifecycle policies and bucket ACL for S3 Setup CloudWatch alarms,
- Setup CloudWatch log groups, encrypting log groups, KMS key policies.
- IAM administration, writing user / group / role policies.
- Qualys Application and Vulnerability Scanner admin, ClamAV admin, OSSEC admin.
- Setup Mosyle Fuse MDM solution for MacOS devices - Gmail SSO login for MacOS
- Setup SSO for Knowb4 Knowledge management tool and wp-engine (mini orange sso plugin setup)

Environment: EC2, EKS, RedHat Linux, DataDog, Agile, GuardDuty, Inspector, WAF, Apache 2, WordPress, MongoDB

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

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, TeamCity
- Working with docker and orchestrating containers using Kubernetes (EKS, GKE, Kops, Kubectl)
- Set up filters to parse logs using ELK stack Filebeat, Elasticsearch, Logstash 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 OpenLDAP and phpLDAP 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, Codepipeline, Codestar, 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, TeamCity, CircleCI, Jenkins, ELK, GIT

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

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**

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**

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