**Jaya Godugu**

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**Professional Summary:**

* Over **12 years of experience** in DevOps, specializing in CI/CD, cloud infrastructure, container orchestration, automation, and configuration management.
* Designed and managed robust **CI/CD pipelines** using Jenkins, GitHub Actions, GitLab CI/CD, and Bamboo to support automated testing, static analysis, security scanning, and zero-downtime deployments.
* Automated infrastructure provisioning and configuration with **Terraform**, **Ansible**, and **AWS CloudFormation**, enabling repeatable and reliable production deployments.
* Extensive experience with **AWS services**: EC2, S3, IAM, Lambda, VPC, EKS, Route 53, Cloud Watch, SQS, SNS, and Elastic Beanstalk. Focused on security, cost optimization, and multi-environment consistency.
* Proficient in **Docker** and **Kubernetes**, RBAC, ingress configuration, autoscaling, and production-grade cluster management.
* Experienced in designing and managing scalable cloud infrastructure on **Microsoft Azure**, including services such as **Azure Virtual Machines**, **Azure Kubernetes Service (AKS)**, and **Azure DevOps** for **CI/CD** automation.
* Implemented **monitoring and observability solutions** using Prometheus, Grafana, ELK stack, AWS CloudWatch, and Datadog, including alerting and dashboarding aligned to SLOs.
* Strong scripting and automation skills in **Python**, **Bash**, and **Go** for infrastructure automation, deployment tools, and custom health checks.
* Proficient in **configuration management and automation** using **Chef**, **Puppet**, and **Ansible** to ensure consistent and repeatable infrastructure deployments.
* Hands-on experience with **HA Proxy** for high availability, load balancing, and traffic routing in distributed environments.
* Strong background in **Linux systems administration** (Ubuntu, CentOS, Red Hat), including shell scripting, performance tuning, user management, and service configuration.
* Skilled in deploying and managing **containerized applications** using **Docker** and integrating them into CI/CD workflows.
* Experience with **Elasticsearch** for centralized logging, search optimization, and integrating with the ELK stack for observability and analytics.
* Experience managing **hybrid and multi-tenant environments** with tight SLAs; configured VPNs, routing, DNS, security groups, and firewalls in segmented architectures.
* Worked cross-functionally with Dev, QA, and InfoSec teams to ensure compliance and security in deployment workflows. Experience with **HashiCorp Vault** and **AWS Parameter Store** for secrets management.

* Applied **GitOps practices** for managing Kubernetes and application configuration using Git, GitHub, GitLab, and Bitbucket.

* Supported high-priority production incidents, conducted **RCA/postmortems**, and implemented long-term preventive solutions as part of an on-call rotation.
* Managed and automated tasks for **PostgreSQL**, **MongoDB**, and **DynamoDB**, including backups, schema migrations, and performance tuning.
* Authored detailed **runbooks, SOPs, and architecture documentation** using Confluence and internal wikis for onboarding and operational consistency.
* Mentored junior engineers, led internal DevOps workshops, and promoted an Agile DevOps culture through tooling, best practices, and process maturity.

**Technical Skills:**

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| **Cloud Platforms:** | AWS (EC2, S3, VPC, IAM, CloudWatch, CloudFormation, Route 53, Auto Scaling, Elastic Beanstalk, ECS, EKS, Lambda, DynamoDB, SQS, SNS, CloudFront), Azure (Azure Virtual Machines, Azure Kubernetes Services, Azure DevOps, Azure load balancer, Azure blob storage, Azure file storage, Azure Data Factory) |
| **Containerization & Orchestration:** | Docker, Kubernetes, Helm, **Linux Containers (LXC/LXD)** |
| **Configuration Management & Automation:** | **Ansible, Chef, Puppet,** Shell scripting, Bash |
| **Infrastructure as Code (IaC):** | Terraform, AWS CloudFormation |
| **CI/CD & Build Automation:** | Jenkins, GitLab CI, Bamboo, Maven, Gradle, ANT, Make files, CMake |
| **Monitoring, Logging & Load Balancing:** | Prometheus, Grafana, **ELK Stack (Elasticsearch, Logstash, Kibana),** AWS CloudWatch, **HAProxy** |
| **Artifact Repositories:** | JFrog Artifactory, Nexus, npm |
| **Scripting & Programming Languages:** | Python, Go, Shell (Bash), Perl, C, C++, Java |
| **Operating Systems:** | **Linux (Ubuntu, CentOS, Red Hat, Fedora),** Unix |
| **Web & Application Servers:** | Apache Tomcat, NGINX, WebSphere, WebLogic, JBoss, IIS |
| **Version Control & Project Management:** | Git, Bitbucket, Jira, ServiceNow, Bugzilla, Confluence, HP Quality Center (HPQC) |
| **Networking & Protocols:** | TCP/IP, UDP, DNS, DHCP, FTP, SFTP, ICMP, VPN, ARP, Telnet |
| **Testing & QA:** | Functional Testing, Regression Testing, Performance Testing, Release Management |
| **Web Technologies:** | HTML, CSS, JavaScript, XML |
| **Development Tools & IDEs:** | Vim, Emacs, Xcode, Visual Studio |
| **Core Computer Science Concepts:** | Distributed Systems, Race Conditions, Mutexes, Inter-Process Communication (IPC), Data Structures & Algorithms |

**Professional Experience:**

**Cohesity -Senior SRE/Devops Engineer -** **San Jose, CA | Feb 2022 – Till Date**

**Responsibilities:**

* Designed and implemented **cloud-native architectures** on AWS (EC2, S3, EKS), focusing on high availability, scalability, and fault tolerance.
* Automated infrastructure provisioning using **Terraform** and **AWS CloudFormation**, reducing manual provisioning time by 80%.
* Built and optimized **CI/CD pipelines** using Jenkins and GitLab CI/CD for automated microservices deployment and secure release processes.
* Deployed and managed **Kubernetes clusters on EKS**, leveraging **Docker** and **Helm** for scalable container orchestration.
* Integrated **Prometheus**, **Grafana**, and **CloudWatch** for proactive monitoring, real-time dashboards, and faster incident resolution.
* Led cloud cost optimization through **auto-scaling**, resource right-sizing, and removal of underutilized resources, cutting costs by 20%.
* Implemented **GitOps workflows** for Kubernetes configuration management, improving deployment consistency and rollback efficiency.
* Strengthened cloud security by integrating **IAM roles**, security groups, and conducting audits to meet compliance standards.
* Wrote **Ansible playbooks** to enforce infrastructure-as-code practices and maintain system configurations across nodes.
* Managed **PostgreSQL** and **DynamoDB** databases, ensuring HA, automated backups, and performance tuning.
* Administered and secured **Linux-based systems (Ubuntu, CentOS)**, handling package management, user permissions, Cron jobs, and SSH configuration.
* Developed **AWS Lambda** functions for workflow automation and seamless integration across distributed systems.
* Integrated **Chef** with **CI/CD** pipelines to ensure consistent and repeatable infrastructure deployments.
* Utilized **AWS CDK** and **Terraform** for Infrastructure as Code (IaC), enabling version-controlled, repeatable provisioning of cloud resources.
* Led **on-call rotations**, reducing incident response times by 25% using ELK Stack for centralized logging and alerting.
* Collaborated with InfoSec to resolve vulnerabilities, enforce security standards, and support regulatory audits.
* Enabled faster environment provisioning through automation, improving deployment speed and reducing human errors.
* Mentored junior engineers on Kubernetes, **AWS**, and DevOps best practices, fostering technical growth and team productivity.
* Drove Agile DevOps adoption, increasing deployment frequency and reducing time-to-market through process improvements.

**Environments: AWS, CI/CD, GIT, Jenkins, Java, ANT, Maven, Ansible, Chef, JIRA, AWS Lambda,**

**Python, Docker, Kubernetes, Terraform, Cloud watch, ALB, Linux/Unix, PostgreSQL, Prometheus, Grafana**

**StorageCraft Technology, LLC -Senior Devops Engineer- Draper, UT | Apr 2019 – Feb 2022**

**Responsibilities:**

* Migrated legacy on-prem infrastructure to **AWS** cloud using EC2, S3, Lambda, RDS, and VPC for scalable and highly available environments.
* Automated infrastructure provisioning with **Terraform** and **AWS CloudFormation**, significantly accelerating deployment and reducing configuration drift.
* Designed and maintained **CI/CD pipelines** using Bamboo and GitLab CI, integrating **SonarQube**, security scans, and automated tests for high-quality releases.
* Managed **Ansible** automation workflows and configured role-based access using Ansible Tower/AWX, ensuring secure and efficient infrastructure management.
* Implemented **Puppet** reporting and logging for real-time tracking of configuration changes and compliance.
* Configured **HAProxy** for high availability and load balancing of web services, ensuring optimal traffic distribution.
* Tuned **HAProxy** for SSL termination and health checks to improve performance and fault tolerance of backend services.
* Deployed and managed **containerized applications** using **Docker** and **Kubernetes**, leveraging EKS for production workloads and Helm for release management.
* Administered **IAM**, security groups, and VPC peering, implementing least privilege access and network segmentation for compliance and secure operations.
* Implemented **auto-scaling** groups and right-sizing strategies to optimize AWS resource utilization, improving cost-efficiency and availability.
* Tuned and managed **PostgreSQL** and **MongoDB**, including replication, backup automation, and performance monitoring to support high availability.
* Built observability pipelines using **AWS CloudWatch**, **Datadog**, **Prometheus**, and **Grafana** to enable real-time system visibility and alerting.
* Automated provisioning tasks and routine operations using **AWS Lambda**, **Bash**, and **Python**, increasing operational agility and minimizing manual errors.
* Integrated **ELK Stack** (Elasticsearch, Logstash, Kibana) for centralized logging, enabling faster incident triage and root cause analysis.
* Strengthened cloud security through **encryption at rest/in transit**, hardened IAM policies, and audit trails aligned with compliance frameworks.
* Defined and tested **disaster recovery** plans, automating snapshots and failovers for critical systems to ensure business continuity.
* Led the **monolith-to-microservices** transformation, containerizing services and deploying them via Kubernetes for modular, scalable architecture.
* Developed a **self-service infrastructure portal** using reusable Terraform modules and CloudFormation templates to empower developer autonomy.
* Drove **cost optimization** initiatives, reducing cloud spend through rightsizing, scheduling, and by decommissioning idle resources.
* Mentored junior engineers in DevOps tooling, IaC practices, Kubernetes architecture, and cloud-native security principles.

**Environments: Environments: AWS, CI/CD, GIT, Bamboo, C/C++, Ansible, Puppet, JIRA, EC2, S3, VPC, SQS, SNS, IAM, CloudWatch, JFrog, Artifactory, Micro Services, Automation, Python, Go, Docker, Kubernetes, Cloud Formation, ELB, Linux/Unix, PostgreSQL, MongoDB, Prometheus, CloudWatch**

**Addteq- Devops Engineer- Princeton, NJ | Dec 2018 – Feb 2019**

**Responsibilities:**

* Containerized applications using Docker and orchestrated deployments with **Kubernetes** and **Azure Kubernetes Service (AKS)**, managing Pods, Deployments, Daemon Sets, and Ingress controllers for scalable, resilient microservices.
* Designed and implemented end-to-end **CI/CD** pipelines using **Azure DevOps** and GitLab CI, automating build, test, and deployment workflows to enhance release speed and reliability.
* Provisioned and managed infrastructure as code using **Terraform** and Azure Resource Manager (ARM) templates, enabling consistent and automated environment provisioning.
* Utilized Azure services including **Virtual Machines (VMs),** Blob Storage, Azure Functions, and Azure Container Instances (ACI) to support compute, serverless, and storage needs.
* Configured and maintained **PostgreSQL** and **MongoDB** on Azure Database for PostgreSQL and Azure Cosmos DB, optimizing for performance, scalability, and automated backup and recovery.
* Set up monitoring and alerting with Azure Monitor, Log Analytics, and Prometheus + Grafana to ensure real-time insights into system health and performance.
* Provisioned and managed Azure Managed Disks (block storage) for virtual machines and container workloads, ensuring high-performance, durable storage with optimized IOPS and secure encryption at rest.
* Used Helm to package and deploy Kubernetes applications to AKS, standardizing service deployment and streamlining configuration management.
* Enforced cloud security policies via **Azure Active Directory (AAD)** and Role-Based Access Control (RBAC), adhering to least privilege access and compliance requirements.
* Automated routine infrastructure tasks and environment checks using Python and PowerShell scripts, reducing operational overhead and manual errors.
* Configured **Azure Load Balancer** and Application Gateway to distribute traffic across virtual machines and containers, improving application availability, fault tolerance, and performance under high load.
* Integrated **Azure Artifacts** and **JFrog** Artifactory for version-controlled storage of build outputs and third-party dependencies across environments.
* Automated configuration management and application deployment using Ansible playbooks, and leveraged Ansible Tower for scheduling, visibility, and role-based control.
* Created and maintained **Chef** cookbooks to automate VM provisioning and enforce configuration standards across Azure-hosted workloads.
* Implemented **Azure Service Bus** and Event Grid to manage asynchronous messaging and event-driven architectures, improving system decoupling and reliability.
* Designed secure networking infrastructure using **Azure Virtual Network (VNet),** Azure DNS, and VPN Gateway to enable secure hybrid connectivity.
* Implemented Azure Load Balancer and Application Gateway with auto-scaling policies to ensure optimal performance and high availability under varying load conditions.
* Applied advanced security configurations using Azure Key Vault, SSL/TLS, and network security groups (NSGs) to secure traffic and protect sensitive data.
* Centralized logging with the **ELK** Stack and Azure Log Analytics for traceability and fast incident diagnostics across microservices.

**Environments: CI/CD, GIT, Java, Chef, JIRA, Azure, Azure DevOps, Gitlab, Azure Resource Manager, Azure Virtual Machines, Azure Load Balancer, JFrog, Artifactory, Python, Go Docker, Kubernetes, Terraform, Windows, Linux/Unix, PostgreSQL, MongoDB, Prometheus, Grafana**

**PASSUR Aerospace, Inc -Computer Programer- Orlando, FL | Aug 2015 – Oct 2018**

**Responsibilities:**

* Designed and implemented distributed, cloud-native systems on **AWS (EC2, S3, Lambda, RDS)** to collect and process real-time aviation data with high scalability and low latency.
* Migrated on-premise workloads to AWS, optimizing cloud infrastructure using **Terraform** and **CloudFormation**, improving performance and reducing maintenance overhead.
* Containerized microservices with **Docker** and orchestrated deployments using **Kubernetes**, enabling efficient rollout and scaling of aviation data services.
* Built and optimized **CI/CD pipelines** with **Jenkins** and **GitLab CI**, integrating automated testing and deployment for faster, reliable releases.
* Integrated **PostgreSQL** and **MongoDB** to support structured and unstructured aviation datasets, enabling low-latency analytics and high availability.
* Implemented **Prometheus**, **Grafana**, and **CloudWatch** for real-time infrastructure monitoring and alerting, reducing MTTR and improving observability.
* Designed auto-scaling and failover strategies using **AWS ASG**, **ELB**, and **Route 53**, ensuring high availability during peak loads and system failures.
* Automated data ingestion workflows and ETL pipelines to support real-time streaming of high-volume aviation data without performance degradation.
* Enforced security best practices with **AWS IAM**, **encryption protocols**, and **VPC**, ensuring secure handling of sensitive data and regulatory compliance.
* Developed automated health checks, log aggregation with the **ELK stack**, and recovery workflows to ensure fault tolerance and reduce manual intervention.
* Implemented container orchestration policies and **Helm charts** to simplify Kubernetes resource management and accelerate deployment cycles.
* Used **Python** and **Bash scripting** for infrastructure automation, log parsing, and monitoring, streamlining operational tasks.
* Maintained secure network communications via **VPN**, **SFTP**, and **DNS** configurations, ensuring encrypted, reliable data transmission across hybrid infrastructure.
* Performed load and performance testing across distributed services to identify bottlenecks and apply caching and architectural optimizations.
* Oversaw cloud cost optimization initiatives by applying **right-sizing**, **auto-scaling**, and resource scheduling to reduce AWS expenses.
* Mentored junior engineers and led documentation of infrastructure, CI/CD workflows, monitoring practices, and cloud security protocols for consistency and knowledge sharing.

**Environments: AWS, CI/CD, GIT, Gitlab, Jenkins C/C++, JIRA, Confluence, EC2, S3, VPC, SQS, SNS, IAM, CloudWatch, Artifactory, Micro Services, Automation, Python, Go, Docker, Kubernetes, Cloud Formation, ELB, Linux/Unix, PostgreSQL, MongoDB, Prometheus, CloudWatch.**

**Addteq-Software Configuration Manager- Princeton, NJ | Feb 2013 – Aug 2015**

**Responsibilities:**

* Automated the build, release, and deployment processes using **Shell, Perl, ANT, and Maven**; defined configuration management (CM) policies and maintained Git/SVN repositories across multiple projects.
* Developed controllers and independent modules using **PERL and DBI** to retrieve and process data from **MySQL** databases, transforming it into JSON for deployment across environments.
* Created and used PERL and Shell scripts to manage XML configuration, generate **HTML reports**, perform backups, and automate artifact filtering and packaging **(JARs, WARs, EARs).**
* Set up and maintained CI/CD pipelines using **Bamboo**, integrated with JIRA and Confluence for issue tracking, documentation, and build notifications, supporting streamlined development workflows.
* Managed version control workflows (**branches, merges, pull requests**), conducted incremental and full backups, and configured Apache servers to host applications built on customized database releases.

**Environments: CI/CD, GIT/SVN, GitHub, Bamboo, Java, JIRA, Confluence, Artifactory, Automation, Shell, PERL, SQL, HTML, MySQL, XML, HTML, Apache.**

**Accenture- Software Engineer- India | Dec 2009 – Jul 2011**

**Responsibilities:**

* Contributed to the **design and execution of test plans** for the GPS system, an enterprise-level financial information system supporting deal tracking across distributed databases.
* Performed **functional, capacity, and performance testing** of custom-built applications used for managing and validating business deals at Accenture.
* Executed comprehensive test cycles and conducted **defect tracking and reporting** using ClearQuest, ensuring high system reliability and data integrity.
* Supported **multiple release cycles**, coordinating testing efforts and validating enhancements across iterative deployments.
* Engaged in **direct customer interactions** to understand requirements, provide testing updates, and ensure alignment with business goals and CIO office expectations.

**Environments: SDLC, Software Development, Java, C/C++, Shell, IBM ClearQuest, Code Management, Unit Testing, Regression Testing, Release Management.**

**Education Details:**

Master of Science in Computer Engineering-State University of New York at Stony Brook- Dec 2012

Bachelor of Electronics and Communication Engineering Sir MVIT-2009