

# G Jaswanth

## AWS DevOps Engineer

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### About

With over 4+ years of experience in IT Industry, I have strong expertise in DevOps, Site Reliability Engineering (SRE), Production Support, Application Support, Observability Engineering, and IT Infrastructure Support. My career has focused on automating, building, deploying and releasing code from one environment to another environment, supporting and monitoring application in a 24/7 environment, ensuring high availability and reliability.

### Profile Summary

- Streamlined build automation by integrating Jenkins with version control systems, including Gitlab and Github, enhancing CI/CD pipeline.
- Extensively utilized Jenkins to implement end-to-end automation of build and deployment processes, ensuring consistent and reliable continuous integration across development pipelines.
- Designed, deployed, and managed secure, scalable cloud infrastructure on AWS, leveraging services such as EC2, S3, VPC, IAM, CloudWatch and Route53 to support high availability environments.
- Designed and maintained custom VPC architectures with public and private subnets, NAT gateways, route tables, and security groups to support scalable and secure cloud environments.
- Automated provisioning of VPCs using Terraform, defining subnet layouts, route tables, internet gateways, NAT gateways and VPC peering for multi-region connectivity.
- Provisioned, configured, and maintained Amazon EC2 instances for development, staging and production environments ensuring high availability and cost optimization through auto scaling and spot instance strategies.
- Configured Amazon CloudWatch for real-time monitoring, metrics collection and custom dashboards to track EC2 performance, application health and infrastructure KPI.
- Deployed and managed Amazon RDS instances (PostgreSQL / MySQL), ensuring high availability through multi-AZ configurations, automated Backups and maintenance windows.
- Utilized AWS performance insights to analyze database workload trends, identify slow queries, and optimize resource utilization, resulting improvement in query performance.
- Managed Amazon S3 buckets, configured S3 bucket policies, integrated S3 with CI/CD pipelines for storing build artifacts, wrote shell scripts utilizing AWS CLI to automate S3 operations such as recursive uploads/downloads.
- Implemented lifecycle rules and intelligent tiering using AWS CLI to optimize S3 storage costs by automatically transitioning and expiring infrequently accessed objects.
- Developed Dockerfiles for application containers, automated Docker image builds and AWS ECR pushes using CI/CD pipelines, ensuring consistent version control and seamless integration with ECS and EKS deployments.
- Provisioned and managed AWS EKS clusters using terraform, enabling fully automated and reproducible Kubernetes infrastructure across multiple environments.

- Worked with AWS ECS to deploy and manage containerized applications by configuring task definitions, services, IAM roles, load balancers, and autoscaling policies to ensure reliable and scalable container orchestration.
- Designed Terraform modules for scalable EKS deployments, including node groups, networking (VPC, subnets, security groups), and IAM roles, reducing manual setup time.
- Automated application deployments using Helm charts, standardizing configurations across dev, staging, and production environments, reducing release errors
- Implemented Skaffold based CI/CD pipelines, enabling developers to iterate quickly on Kubernetes applications and cutting deployment cycles.
- Configured and managed Apache Tomcat application servers, including tuning JVM parameters, thread pools, connectors, SSL configurations, and deployment pipelines to ensure high availability and optimal performance.
- Built and optimized Java Spring Boot applications for production, implementing externalized configurations, environment profiles, health checks.
- Automated image packaging and deployment workflows by integrating Docker with Jenkins CI/CD, ensuring seamless build, test, and push processes to AWS ECR and Kubernetes clusters
- Deployed and managed Java microservices on Kubernetes (EKS), configuring deployments, services, autoscaling policies, liveness/readiness probes, resource limits, and rolling update strategies for zero-downtime releases.
- Designed and implemented Helm charts to standardize Spring Boot application deployments across multiple environments.
- Diagnosed and resolved application reliability issues across Tomcat, Docker, and Kubernetes layers by analysing logs, JVM metrics, pod failures, and network traffic, improving service stability and reducing mean time to recovery.
- Experienced in using bug and issue tracking tools like Jira for managing sprint tasks, collaborating with development teams, and ensuring timely resolution of issues across environments.
- Supported QA teams during testing and provided oversight during production deployments.
- Assisted development teams in provisioning AWS MSK clusters and integrating them into applications, including topic creation, security configurations, client connectivity setup, and monitoring consumer lag to ensure reliable message processing.
- Experience in setting up and configuring NoSQL databases like MongoDB, including deploying replica set architectures for high availability, fault tolerance, and consistent data replication across nodes.
- Worked on setting up and configuring Elasticsearch clusters and utilized its querying capabilities to search, filter, and analyse application logs, enabling faster troubleshooting and improved observability.
- Hands-on understanding of LLM lifecycle workflows, including prompt engineering.
- Experience working with Retrieval-Augmented Generation (RAG) patterns using vector databases (Pinecone / Chroma) to improve accuracy and context relevance in AI-driven applications.
- Familiar with designing and orchestrating AI agents capable of tool usage, task automation, and multi-step reasoning using frameworks like LangChain.
- Knowledge of Model Context Protocol (MCP) for building interoperable AI systems that allow applications, tools, and models to securely exchange context and actions.
- Strong knowledge of Python and Bash, with hands-on experience building automation scripts, CI/CD workflows, system utilities, and infrastructure tooling to streamline DevOps operations.

## Academics

- SSC (10th Standard), Andhra Pradesh Board  
Scored 90%
- Intermediate (M.P.C), Andhra Pradesh Board  
Scored 87%
- Bachelor's Degree, IISER Pune  
CGPA: 7.4

## Work Experience Summary

Period	Employer Name	Position
October 2021 - Present	Azuga Telematics	Senior Site Reliability Engineer

## Core Competencies

Operating Systems	Ubuntu, Amazon Linux 2
Languages	Python, Bash, Java
CI/CD Tools	Gradle / Maven, Jenkins, Docker, Helm, Skaffold, Kubernetes, ArgoCD
Web Servers	Apache Tomcat, FastAPI
Databases	MySQL, PostgreSQL, Mongo
Monitoring	Nagios, Prometheus, Grafana
Job Scheduling	Airflow, CRON
Bug Reporting Tools	Jira
Cloud	AWS (EC2, EBS, EFS, S3, ELB, VPC, Route 53, Security Groups, Network ACL, NAT Gateway, Lambda Functions, ECS, EKS, IAM, CloudWatch)

## Career Expertise

<u>Project #1</u>	Azuga, Bangalore (2021-2023)
Project	RUC Management
Environment	GitHub, Jenkins, Apache Tomcat
Role	Site Reliability Engineer
<u>Project #2</u>	Azuga, Bangalore (2023-present)
Project	FLEET Management
Environment	Gitlab, Jenkins, Docker, Helm, Skaffold, Kubernetes
Role	Senior Site Reliability Engineer

## **Contribution and Responsibilities.**

- Developed and maintained Jenkins Pipelines as code using Groovy, while managing plugin configurations and distributed builds across master/slave nodes to support scalable, automated deployments.
- Implemented and maintained Jenkins-based CI/CD pipelines, accelerating software delivery cycles and enabling agile teams to release features more reliably and frequently.
- Designed and automated end-to-end CI/CD pipelines using Jenkins, Groovy pipelines, GitHub integrations, improving deployment reliability and release frequency.
- Designed and maintained custom VPC architectures with public and private subnets, NAT gateways, route tables, and security groups to support scalable and secure cloud environments.
- Implemented scalable AWS infrastructure including EC2, VPC, S3, IAM, RDS, CloudWatch, Route53 ensuring high availability, cost optimization, and secure cloud operations.
- Automated provisioning of AWS resources using Terraform, including VPCs, EKS clusters, node groups, IAM roles, networking, and multi-region setups.
- Built, containerized, and deployed microservices using Docker, AWS ECS/EKS, Helm charts, and Skaffold, enabling consistent and automated Kubernetes deployments.
- Managed Kubernetes workloads (EKS) by defining deployments, services, autoscaling, RBAC, liveness/readiness probes, and rolling updates to maintain zero-downtime releases.
- Configured, monitored, and tuned Apache Tomcat servers and Spring Boot applications for optimal application performance and reliability.
- Implemented observability solutions using CloudWatch, Elasticsearch, and custom dashboards to monitor application health, consumer lag, JVM metrics, and cluster performance.
- Worked with AWS MSK to provision Kafka clusters, configure topics, integrate client applications, and monitor consumer lag to ensure reliable message delivery.
- Set up and maintained NoSQL databases like MongoDB in replica-set mode, ensuring high availability and consistent replication across nodes.
- Automated day-to-day DevOps operations with Python and Bash for CI/CD, infrastructure tasks, log processing, and cloud automation.
- Collaborated closely with development and QA teams to ensure smooth deployments, troubleshoot production issues, and reduce MTTR through proactive monitoring.
- Worked with Elasticsearch for log analysis and troubleshooting, enabling faster root-cause identification and improved system observability.
- Applied RAG (Retrieval-Augmented Generation), vector DBs (Pinecone/Chroma), and basic AI agent workflows to support internal automation and AI-driven tooling.
- Utilized Jira for sprint management, tracking issues, and coordinating release activities across environments.

## **Personal Skills**

Comprehensive problem-solving abilities, good verbal and written communication Skills, Ability to deal with people diplomatically, Fast learner, Team facilitator. As an individual, I consider myself conscientious, honest and frank.

## **Personal Details**

**Languages Known** English, Hindi, and Telugu

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