

Gagan Inder Singh

gagan2331@gmail.com | +1 365 987 6422 | [LinkedIn](#) | Toronto, Ontario

Results-driven Lead DevOps Engineer with over nine years of experience delivering cloud infrastructure, CI/CD automation, container platforms, and application modernization across diverse industries. Progressed from Linux and application support to leading Kubernetes and Amazon EKS adoption, GitLab CI/CD transformation, infrastructure-as-code, observability, and reliable multi-environment delivery. A curious, continuous learner who enjoys exploring new technologies, converting ideas into scalable solutions, and sharing knowledge with engineering teams.

Technical Skills and Tools

✓ DevOps	✓ Docker	✓ OpenShift	✓ Kubernetes
✓ Python Scripting	✓ Terraform	✓ Terragrunt	✓ Unix/Linux
✓ PyCharm	✓ GitLab	✓ Bitbucket	✓ Eclipse
✓ CloudBees	✓ Spinnaker	✓ Sublime	✓ Jenkins
✓ AWS	✓ Bash	✓ Git Bash	✓ Java
✓ Ansible	✓ Shell Script	✓ VMware ESXi	✓ Nagios
✓ Portainer	✓ Docker Swarm	✓ Paramiko	✓ Jinja2
✓ Apache Kafka	✓ RabbitMQ	✓ Amazon EKS	✓ Argo CD

Experience

AlertDriving (Lead DevOps Engineer)

February 2023 - Present

Working as a Lead DevOps Engineer, managing CI/CD operations across the firm, automating infrastructure, implementing continuous integration and deployment, monitoring performance, and supporting security and compliance for more than 400 VMware ESXi virtual machines. Built Nagios monitoring solutions with Jinja and Python utilities and played a major role in migrating legacy workloads to the cloud.

Technologies used: *CI/CD, GitLab CI, Bitbucket, Argo CD, Spinnaker, Kubernetes, Amazon EKS, Docker, Docker Swarm, BuildX, Portainer, VMware ESXi, Percona DB Cluster, Nagios, Clonezilla, LVM, DD, chroot, Paramiko, Ansible, Jinja, Packer, Terraform, Azure, AWS, Vulture*

Responsibilities:

- Lead the migration of containerized applications from Docker Swarm to Kubernetes on Amazon EKS, defining production-ready deployments, services, ingress, ConfigMaps, secrets, health probes, and resource controls while supporting workload troubleshooting across development, staging, and production environments.
- Migrated source code repositories from Bitbucket to GitLab, including repository structure, branches, and development workflows.
- Designed and maintained GitLab CI/CD pipelines to automate application builds, testing, Docker image creation, and deployment across multiple environments.
- Improved DevOps automation by integrating GitLab CI/CD, Docker, and deployment workflows, reducing manual deployment effort and improving release consistency.
- Built and maintained Spinnaker pipelines for Kubernetes deployments on Amazon EKS, automating release promotion, rollback, and validation across environments.
- Led developers and system administrators through Kubernetes adoption, establishing EKS deployment standards, health checks, resource controls, and troubleshooting practices for scalable, highly available workloads.
- Write, modify, integrate, and test software code while applying Linux administration, VMware ESXi, and LVM expertise. Manage containerized workloads with Docker, Docker Swarm, Portainer, and Docker BuildX to support scalable and reliable deployments.
- Maintain and upgrade infrastructure for high availability and performance, administer Percona DB Cluster environments, use LVM for storage management, and use Clonezilla for backup and disaster recovery operations.
- Design and maintain CI/CD pipelines to automate application delivery, streamline deployments, and improve release reliability across AWS and Azure cloud environments.
- Identify and resolve technical problems using Nagios for proactive monitoring and perform advanced troubleshooting, forensic analysis, and system recovery using DD and chroot utilities.
- Prepare technical documentation, operational manuals, and maintenance procedures while using Ansible, Jinja, Terraform, and Packer to standardize deployments and improve provisioning workflows.
- Gather and document requirements, automate secure remote administration using Paramiko, and develop dynamic deployment configurations with Jinja.
- Lead teams of developers and system administrators using container orchestration, VMware ESXi virtualization, and AWS and Azure services to manage scalable, highly available environments.
- Research and implement cloud, database clustering, monitoring, automation, and security-focused Linux solutions to support organizational goals.
- Participated in migrating application messaging from Apache Kafka to RabbitMQ within a containerized microservices environment, supporting configuration, deployment, and troubleshooting.

Anetcorp India Pvt. Ltd., Chandigarh (Senior DevOps Engineer)

October 2022 - January 2023

Created and maintained CI/CD pipelines, automated Jira activities and GitHub repository backups, developed Python automation for Adobe AEM dispatcher cache jobs, and used shell scripts to streamline daily operations. Project: US Biotechnology Corporation.

Technologies used: *Jira, Python, Jenkins, Groovy, Shell, Confluence, Linux, GitHub, AWS Git, Adobe AEM*

Responsibilities:

- Led deployment, management, security, and patching of enterprise cloud applications across the software lifecycle.
- Enhanced CI/CD processes using AWS CodeDeploy, CodeBuild, Jenkins, and SonarQube.
- Applied immutable infrastructure and infrastructure-as-code concepts to capacity planning, resource provisioning, incident management, and root-cause analysis.
- Produced operational documentation and used Nagios, Datadog, Logstash, and Sumo Logic for monitoring, logging, and reporting.
- Used AWS services including EC2, S3, IAM, Route53, RDS, VPC, NAT and Internet Gateways, Lambda, load balancers, CloudWatch, and API Gateway.
- Coordinated end-to-end DevOps projects and multi-cluster container environments using AWS ECS with EC2 and Fargate, including Route53 service discovery.
- Evaluated AWS and DevOps solutions to improve system performance, security, reliability, and operational effectiveness.

Accenture, Gurugram (*Senior Software Engineer*)

December 2016 - September 2022

Designed, built, and configured applications and DevOps solutions to meet business and application requirements across insurance, banking, and travel technology programs.

Projects:

Travelers Insurance - Senior DevOps Engineer

February 2022 - September 2022

Created CI/CD tools using CloudBees Jenkins and Terraform pipelines for continuous integration and AWS infrastructure delivery. Automated database deployments and improved pipeline and script reliability.

Technologies used: CloudBees Jenkins, Docker, Git, Python, Shell Script, Rally, Confluence, Linux, GitHub, AWS, Terraform

Responsibilities:

- Fixed and enhanced existing pipelines and Terraform scripts to build infrastructure reliably.
- Created and modified webhook triggers.
- Created Terraform scripts to provision infrastructure.

Western Union Bank - Senior DevOps Engineer

May 2020 - February 2022

Created CI/CD tools using Jenkins, Spinnaker, and Terraform and developed Python automation to meet client delivery requirements.

Technologies used: Kubernetes, Jenkins, Docker, Git, Python, Shell Script, Jira, Confluence, Linux, GitLab, AWS, CloudBees, Spinnaker, Terraform, Terragrunt

Responsibilities:

- Fixed and enhanced pipelines and Terraform scripts to build infrastructure more efficiently.
- Wrote SOPs and technical documentation for tools and scripts.
- Built client POCs covering EKS clusters, Pods, Services, and security controls.
- Built CloudBees Jenkins CI pipelines from scratch.
- Built Spinnaker CD pipelines integrated with CloudBees Jenkins CI.
- Supported Apache Kafka setup and configuration, including basic topics, producer and consumer behavior, and connectivity troubleshooting.

Amadeus - DevOps Engineer

January 2019 - May 2020

Served as a point of contact between solution and application teams during migration from legacy systems to cloud environments, performing analysis, identifying gaps, documenting procedures, collecting feedback, and standardizing the approach across applications.

Technologies used: AWS, Red Hat OpenShift, Jenkins, Vagrant, Docker, Git, Python, Shell Script, Jira, Bitbucket, Confluence, Linux

Responsibilities:

- Worked with development and testing teams to design robust solutions for functionality, scalability, and performance.
- Communicated with stakeholders and provided timely project updates.
- Developed Ansible roles to automate application builds and deployments in Docker containers.
- Developed Dockerfiles and Docker Compose files to containerize applications.
- Built pipeline scripts and jobs to automate CI/CD processes.
- Worked with SonarQube, repository managers, GitHub, and Bitbucket integrations with Jenkins.
- Deployed applications to Kubernetes using Pods, Deployments, Services, Ingress, and persistent volumes.
- Designed and managed AWS infrastructure using EC2, load balancers, Route53, and S3 following well-architected principles.
- Developed Python tools and integrations using functional and object-oriented approaches.
- Created complex Bash scripts to automate operational tasks.

Marriott Hotels - Associate DevOps Engineer

December 2016 - January 2019

Supported application availability and SLAs, owned major-issue escalation and troubleshooting, and produced root-cause analysis for service outages.

Technologies used: Java EE, Java MVC Spring, MySQL, UNIX, Client Private Cloud Services

Responsibilities:

- Provided application support through continuous client interaction using ServiceNow.
- Provided application and deployment support to meet SLAs.
- Performed root-cause analysis to maintain system stability.
- Created weekly ETL reports for business analysis.
- Maintained more than 200 Linux and UNIX production servers.
- Wrote Python and Bash scripts for maintenance and initial troubleshooting.
- Used Introscope and custom shell scripts to monitor applications and infrastructure.
- Documented troubleshooting methods and resolutions in the support knowledge base.
- Recommended new processes to improve operational efficiency.

Awards

★ Accenture Celebrates Excellence Award

August 2019

★ Accenture Ace Award

November 2019

Education

MCA, Thapar University, Patiala

June 2013 - May 2016

BCA, MIM Institute of Technology, Patiala

June 2010 - May 2013

Higher Secondary, GNFPS, Patiala

April 2009 - March 2010

Secondary, GNFPS, Patiala

April 2007 - March 2008

Certificates

✓ AWS Developer Associate

✓ AWS Solutions Architect - Associate

✓ Red Hat Accredited Container Platform Delivery Analysis

✓ Terraform Associate

✓ AWS Solutions Architect - Professional

Languages

English, Hindi, Punjabi