GOVIND SINGH

CLOUD DEVOPS ENGINEER

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CAREER SUMMARY:

Hello! I'm Govind Singh, a passionate DevOps Engineer with around 4 years of experience in designing, debugging, root cause analysis, and application management. I excel in fast-paced environments and bring strong interpersonal and communication skills. I am eager to continue working in the DevOps domain, with a primary focus on designing, developing, and maintaining monitoring tools and cloud solutions.

WORK EXPERIENCE:

Decimal Technologies, Gurugram

Cloud DevOps Engineer | February, 2022 - Present

Kotak Mahindra Bank Project

- Designed and implemented **Kubernetes** clusters with **high availability** and maintained production servers, ensuring compliance with financial industry regulations and security standards.

- Automated infrastructure provisioning using Terraform, maintaining state files remotely and implementing version and state-locking techniques.

- Developed Python-based automation scripts and utilities to manage AWS resources using Boto3, including EC2, ALB, Auto Scaling, RDS, IAM, and S3.

- Implemented Python utilities for deployment validation, health checks, and rollback support in blue/green deployment strategies across EC2, EKS, and RDS.

- Built Python-based log processing and monitoring helpers to support centralized logging with Fluentd, Elasticsearch, and Kibana (EFK stack).

- Configured AWS EC2, ALB, Auto Scaling, ACM, and CloudFlare for seamless application delivery.

- Planned and executed deployment and release management strategies, including **blue/green deployment** using AWS Code Deploy on EC2, EKS, and RDS.

- Ensured data security by applying SSL certificates for data in transit on ALB and utilizing AWS KMS for data at rest on S3 and Secret Manager.

- Cleared **VAPT** points to remove vulnerabilities from the infrastructure.

- Set up **centralized logging** solutions using **Fluentd**, **Elasticsearch**, and **Kibana** (EFK stack) for efficient log analysis and troubleshooting.

- Applied **VPC peering**, **CloudWatch metrics** with **Container Insights**, and configured rules in **LoadBalancer** to manage routing.

- Migrated non-production and production infrastructure to the client side.

- Implemented application performance monitoring **(APM)** and alerting using **Datadog**.

DBS Bank Project

- Worked on **hardening images** of Kubernetes node groups based on compliance guidelines.
- Implemented **Karpenter node pools** in EKS clusters for creating nodes efficiently.
- Set up alarms for servers using **CloudWatch** to monitor server health.
- Wrote multiple **Shell scripts for Jenkins** to manage server tasks such as running, killing, monitoring, backing up, rolling back, and archiving files.
- Applied **horizontal pod autoscaling** (HPA) and monitoring via **Prometheus** and **Grafana** for optimized performance.
- Transferred S3 bucket data between accounts using **AWS DataSync.**
- Designed and optimized Docker images and infrastructure for resource efficiency.
- Set up **Jenkins CI/CD pipelines** to automate the build and deployment of Docker images.

Canara Bank Project

- Managed multiple digitized BFSI projects with **compliant infrastructure**.
- Implemented multi-environment release management for production and non-production environments.
- Worked on cloud solutions to support, automate, and optimize deployments on cloud platforms and on-premise environments.
- Configured **AWS IAM policies** and **roles** for enhanced security.
- Applied **SSL certificates** for secure data transmission and **AWS KMS** for encrypted data storage.
- Designed monitoring systems using **Prometheus and Grafana** for efficient incident response.
- Ensured **adherence to compliance standards** through detailed application monitoring and reporting.
- Wrote **Python utilities** for **data validation, configuration management, and deployment** orchestration across multiple environments

TECHNICAL SKILLS SET:

- **Cloud**: AWS
- **CICD tools:** Jenkins, ArgoCD, Azure DevOps,
- **Scripting:** Shell Script
- **Operating System:** Linux & Windows
- **Version Control tools:** Git, GitHub, GitLab,
- **Containerization & scaling:** Docker, Docker Compose, and Kubernetes
- **Servers:** NGINX, Apache, and Tomcat Server
- **Observability & Monitoring Tool:** Prometheus & Grafana, Consul, DockSkope
- **Logging Tool:** Elasticsearch, Kafka, Logstash, Zookeeper
- **Database:** MySQL, RDS, Postgres, DynamoDB, NoSQL
- **Configuration Management:** Ansible
- **IaC:** Terraform, CloudFormation
- **Security:** SonarQube, Prisma Cloud, Trivy
- **Serverless:** Lambda, CloudFront
- **Programming Languages:** Python (Automation, Scripting, AWS SDK – Boto3)
- **Other AWS tools:** ElastiCache, Route53, ACM, KMS, IAM, WAF, DMS, EventBridge, SNS, ValKey

EDUCATION:

Vellore Institute of Technology, Tamil Nadu, India
Master of Computer Application - AI/ML Engineering

Guru Gobind Singh Indraprastha University, Delhi, India | 2019 - 2022
Bachelor of Computer Application - Software Engineering   84.5%

CORE COMPETENCIES:

- Cloud Architecture Design
- CI/CD Integration
- Automation Strategies
- Security Implementation
- Performance Optimization
- Disaster Recovery Planning
- Infrastructure Provisioning
- Observability, Monitoring, and Incident Response
- Cost Optimizations
- Deployment and Release Management