

Vidhya Shanker Goel

Senior DevOps / SRE / Platform Engineer

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Professional Summary

Senior DevOps Engineer with **7+ years** of experience architecting, automating, and securing cloud-native systems across **AWS**, **Azure**, and **GCP**. Proven track record in designing scalable, cost-optimized, and self-healing platforms using **Kubernetes (EKS/AKS/GKE)**, **Terraform**, and **GitOps (ArgoCD)**. Delivered \$500K annual savings, 3× faster deployments, and 40% downtime reduction. Skilled in **CI/CD automation**, **infrastructure as code**, **SRE observability**, and **DevSecOps compliance** for large-scale enterprise systems.

Core Skills

- **Cloud:** AWS (EC2, S3, IAM, EKS, CloudWatch), Azure (AKS, ASE, Blob, VNets, DR/BCP), GCP (GKE, IAM)
- **Containers/Orchestration:** Kubernetes, Helm, Kustomize, Docker, HPA, PDB, Service Mesh (Istio/Linkerd)
- **IaC / Config:** Terraform, Ansible, Crossplane, Jenkins, GitHub Actions, Azure DevOps, ArgoCD
- **Security/DevSecOps:** IAM/RBAC, Vault, KMS, OWASP Dependency-Check, Trivy, policy-as-code, CIS Benchmarks
- **Monitoring/SRE:** Prometheus, Grafana, ELK, CloudWatch, DataDog, Alertmanager, OpenTelemetry
- **Scripting/Automation:** Bash, PowerShell, Python, SQL; CI/CD pipelines, self-healing automation
- **Networking:** VPC, Subnets, Route Tables, SG/NACL, Ingress, ALB/NLB/ELB, DNS, Transit Gateway

Work Experience

Senior DevOps Engineer Wipro Technologies / Client: Greater Toronto Airports Authority (GTAA) *Pune, IN* — Jan 2020 – Dec 2023

- Engineered a multi-region **Kubernetes (EKS)** platform replacing 27 ALB services with a unified ALB Ingress Controller, saving \$600/month and simplifying SSL lifecycle management.
- Managed **Auto Scaling Groups** and CloudWatch-driven scale events, sustaining 99.9% uptime through self-healing and 3× surge handling during peak airline operations.
- Configured **Route 53 failover routing** (ca-central-1-us-east-1) achieving automatic recovery in under 60 seconds.
- Migrated 500+ AWS resources to **Terraform**, introducing state locking, drift detection, modular design, and remote S3+DynamoDB backends.
- Implemented hybrid observability (**CloudWatch + Prometheus + Grafana**) reducing MTTR by 35%.
- Automated **S3 Cross-Region Replication (CRR)** and ECR-based Lambda containerization—cut cold-start latency 40%.
- Delivered a secure hybrid API model via API Gateway (OAuth, throttling, WAF) and private ALB ingress.

Senior DevOps Engineer Wipro Technologies / Client: RSA Insurance Group *Pune, IN* — Jan 2019 – Dec 2020

- Led RSA's microservices modernization with multi-environment **IaC pipelines (Terraform, Helm, ArgoCD)** achieving 99.95% uptime.
- Created reusable Terraform modules (VPC, EKS, RDS), standardizing deployments across environments and reducing drift by 45%.
- Built automated rollback pipelines (**Helm –atomic, ArgoCD self-heal, Terraform version recovery**) ensuring rapid release safety.
- Designed multi-stage **Jenkins** pipelines with dynamic approvals for secure, auditable deployments.
- Enforced least-privilege access via RBAC, IRSA, and Vault-integrated credentials.
- Introduced **Transit Gateway** architecture replacing 14 VPC peerings, reducing maintenance complexity.

DevOps Engineer Wipro Technologies / Client: CitiBank *Pune, IN* — Jan 2018 – Dec 2018

- Spearheaded migration of on-prem workloads to **AWS Cloud** using Terraform, Jenkins, and Ansible, achieving zero downtime and 100% automated provisioning.
- Resolved Terraform state corruption issues by restoring via Terraformer and implementing **S3 + DynamoDB remote state locking**.

- Automated IAM and network policy enforcement with Terraform modules—standardized compliance across 12 AWS accounts.
- Built shared-library Jenkins pipelines enabling 40+ microservices to deploy safely in parallel.
- Introduced **RDS Proxy** and connection pooling for high-load APIs, reducing DB failures by 65%.
- Integrated Vault secrets management into CI/CD, removing hardcoded credentials and strengthening audit posture.
- Enhanced observability stack (**CloudWatch + Prometheus + Grafana**), cutting MTTR by 30%.

Data Engineer (Co-op / Intern) Digitalogy LLC *Remote, Canada — Feb 2025 – Apr 2025*

- Built a multi-cloud DevOps platform integrating AWS, GCP, and on-prem systems using **Terraform** and **Jenkins**.
- Diagnosed and repaired Terraform state corruption in multi-workspace backends (S3+DynamoDB) with drift detection.
- Implemented **Liquibase** automation for 40+ microservices, enabling safe DB migrations and schema versioning.
- Added RDS Proxy + Redis caching layers—reducing connection load 60% and latency 35%.
- Created **EFK + Grafana** observability stack and Vault + Secrets Manager for dynamic secret rotation.
- Reduced CI/CD release time from 90→25 minutes using parallel pipelines and shared caching.

Data Analyst (Co-op / Intern) Rugby Canada *Toronto, ON (Hybrid) — Jun 2025 – Aug 2025*

- Designed and deployed a Terraform + Jenkins + Docker + AWS ECS data analytics pipeline supporting ETL workloads and dashboards.
- Automated VPC, ECS, RDS, and IAM provisioning with Terraform modules ensuring consistent versioned deployments.
- Recovered Terraform state inconsistencies using import/state validation, avoiding downtime during active deployment.
- Integrated Grafana + CloudWatch for ingestion monitoring; improved coverage 60%.
- Delivered zero-downtime upgrades via Blue-Green ECS deployments managed through GitOps pipelines.

Certifications

AWS Certified Solutions Architect – Associate (2023)
 Certified Kubernetes Administrator (CKA) (2022)
 Microsoft Certified: Azure Administrator Associate (2021)
In Progress: CCNA, CompTIA Network+

Education

PG Certificate in Business Insights & Analytics — Humber College, Toronto, ON	2024–2025
M.Tech in Software Engineering — BITS Pilani, India	2018–2022
BCA — Guru Gobind Singh Indraprastha University, Delhi, India	2015–2018