

LEELA KUMAR

Senior DevOps Engineer | AI/ML Infrastructure & GPU Platform Engineering

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PROFESSIONAL SUMMARY

Senior DevOps / Platform Engineer with 8+ years of experience designing, building, and operating highly available AWS and Kubernetes platforms at enterprise scale. Proven expertise in CI/CD modernization, GitOps adoption, Infrastructure as Code, cloud security, and platform automation. Delivered 40% faster deployments, reduced P1 incidents by 20%, and supported highly available platforms serving millions of users in Agile/SRE environments. Hands-on experience building NVIDIA AI infrastructure using Amazon EKS, NVIDIA Triton, NVIDIA NIM, GPU Operator, GitLab CI/CD, and Terraform.

CERTIFICATIONS & TRAINING

CKA | CKAD | DCA | KCNA | Terraform Associate | AWS CCP | NVIDIA Certified Associate - AIIO | NVIDIA Certified Professional - All
NVIDIA AI Infrastructure Professional Workshop — Instructor-Led, 5-Day Program, July 2026

SKILLS

Cloud & Architecture: AWS (EC2, EKS, S3, IAM, RDS, VPC, Route 53, ElastiCache, Amazon Keyspaces), High Availability, Disaster Recovery, Cost Optimization

Containers & Orchestration: Docker, Kubernetes, Helm, Rancher, Argo CD

CI/CD & Automation: Git, GitLab CI/CD, Jenkins, Terraform, CloudFormation, Ansible, JFrog Artifactory, Nexus, ECR

Security: IAM, Secrets Manager, SSM, GuardDuty, Amazon Inspector, Veracode, Black Duck, Twistlock, Secure SDLC

Monitoring: Datadog, CloudWatch, Splunk, Instana, Prometheus, Grafana

DevOps, Languages & OS: Agile, SRE, DevOps, Python, Shell Scripting, Linux

AI Development Tools: Claude Code, Amazon Kiro

PROFESSIONAL EXPERIENCE

Senior DevOps Engineer — Charter Communications Inc., Denver, CO 05/2021 – Present

- Designed and operated end-to-end GitLab CI/CD pipelines for Kubernetes platforms, cutting deployment time by 40% and improving release stability.
- Led the enterprise migration from Jenkins/Stash/Bitbucket to GitLab, standardizing CI/CD practices across teams.
- Implemented GitOps-based deployments with Argo CD, improving deployment consistency and rollback reliability.
- Built and maintained Helm-based deployment frameworks used across microservices and shared platform components.
- Integrated Veracode security scanning into CI/CD pipelines, embedding secure SDLC practices into the release process.
- Administered and scaled 12 multi-environment Kubernetes clusters on Rancher, sustaining 99.9% availability.
- Partnered with application, security, and SRE teams on incident response, reducing P1 incidents by 20%.

Senior Platform Engineer — Apple Inc., Sunnyvale, CA 03/2021 – 05/2021

- Automated AWS infrastructure provisioning with Terraform and CloudFormation for internal platform services.
- Supported 20+ AWS account environments, with a focus on reliability, security, and operational excellence.
- Contributed to incident troubleshooting and production support across cloud-based platforms.
- Worked cross-functionally with engineering teams using internal tooling (Rubix, Radar, Rio).

Senior DevOps Engineer — Charter Communications Inc., Denver, CO 10/2019 – 02/2021

- Built Jenkins-based CI/CD pipelines to deploy microservices into Kubernetes environments.
- Integrated Veracode scanning for Java and Node.js applications to enforce security compliance pre-release.
- Built and supported Kafka and Cassandra clusters, including automation and troubleshooting.
- Designed and managed AWS infrastructure with Terraform, following infrastructure-versioning best practices.
- Led on-prem to Kubernetes cloud migrations, improving platform scalability and resilience.
- Authored runbooks, MOPs, and deployment documentation to support production readiness.

Senior DevOps Engineer — Freddie Mac Inc., McLean, VA

03/2019 – 10/2019

- Implemented Black Duck and container image security scanning to catch vulnerable dependencies pre-deployment.
- Integrated Fortify static code analysis into CI pipelines for Java artifacts, closing a gap in the secure SDLC.
- Extended Jenkins pipelines to improve build visibility and quality metrics for engineering teams.
- Authored and maintained operational documentation and runbooks in Confluence.

DevOps Engineer — Kriston Solutions Inc., Hyderabad, India

05/2014 – 04/2015

- Automated Java application builds and deployments using Jenkins and Maven.
- Maintained source control, release documentation, and deployment traceability.

PERSONAL AI INFRASTRUCTURE & OPERATIONS LAB PROJECTS

NVIDIA AI Infrastructure & Operations

- Architected GPU-enabled AWS EKS infrastructure using Terraform, Kubernetes, Helm, and NVIDIA GPU Operator to support scalable AI/ML workloads.
- Deployed NVIDIA NIM and Triton Inference Server platforms for containerized Llama 3 and custom model inference.
- Built TensorFlow and PyTorch GPU inference services with CUDA acceleration, GPU scheduling, node labels, taints, and tolerations.
- Implemented an AI inference service and chat application on Kubernetes with Istio ingress, autoscaling, and observability.
- Developed GPU monitoring using NVIDIA DCGM Exporter, nvidia-smi, Prometheus, Grafana, Loki, and OpenTelemetry.
- Configured NVIDIA Device Plugin, GPU Feature Discovery, and Container Toolkit for GPU discovery, allocation, and workload scheduling.
- Built an AWS-based Slurm HPC cluster with CPU and GPU compute nodes, Slurm partitions, Munge authentication, and Base Command Manager.

Technologies: Istio, Prometheus, Grafana, Loki, OpenTelemetry, KEDA, NVIDIA Device Plugin, GPU Feature Discovery (GFD), NVIDIA DCGM, NVIDIA GPU Operator, NVIDIA Container Toolkit, Slurm, Base Command Manager.

EDUCATION

MS, Computer Technology — **Eastern Illinois University**

MS, Electronics Engineering — **Northwestern Polytechnic University**

BE, Electrical and Electronics Engineering — **JNTUA**