KAMRAN HASHMI

DevOps Engineer | AI/ML Infrastructure | Platform Engineering

Lahore, Pakistan | +92-303-4145584 | kamranali.k47@gmail.com
linkedin.com/in/kamhash | github.com/Kamrank47 | medium.com/@kamranali.k47

PROFESSIONAL SUMMARY

DevOps Engineer with 5 years in software engineering and 4 focused on DevOps, operating the platform layer AI workloads run on: **Kubernetes** on AWS EKS and Azure AKS, **Terraform** and Terragrunt, **GitHub Actions** and GitLab CI, and Prometheus/Grafana observability. Cut deployment time from 90 minutes to under 15 across 6 product teams, reduced MTTD by 50%, and removed hard-coded credentials from 100% of deployed repositories. Currently deepening AI/ML infrastructure (AIOps/MLOps) to serve and scale model workloads. Open to remote and contract roles.

TECHNICAL SKILLS

Cloud: AWS (EKS, ECS/Fargate, EC2, S3, IAM, RDS, CloudWatch, CodePipeline); Microsoft Azure (AKS, VMs, App Services, Blob Storage, MSSQL); GCP

Containers & Orchestration: Kubernetes, Amazon EKS, Azure AKS, Docker (multi-stage builds, ECR), Kustomize, Helm, Argo CD, Argo Rollouts

IaC & Configuration: Terraform, Terragrunt, AWS CloudFormation, Ansible

CI/CD & Deployment: GitHub Actions, GitLab CI/CD, Jenkins, AWS CodePipeline, Azure DevOps Pipelines; Git, GitHub, GitLab, Bitbucket

Observability: Prometheus, Grafana, Alertmanager, Loki, CloudWatch, Datadog, NewRelic

Linux, Security & Automation: Linux (Ubuntu, Amazon Linux, RHEL), Bash and Python scripting; IAM least privilege, secrets management, container vulnerability scanning, patching, firewall rules, Cloudflare Tunnel, VPN

AI/ML Infrastructure (in progress): MLOps fundamentals, model serving, containerized GPU workloads

PROFESSIONAL EXPERIENCE

DevOps Engineer · Pikessoft

Aug 2023 – Present

Lahore, Pakistan

- Provisioned and managed containerized workloads on AWS **EKS** and **ECS (Fargate)** and on Azure Kubernetes Service (**AKS**) with auto-scaling and rolling deployments.
- Designed and maintained multi-environment **CI/CD** pipelines in **GitHub Actions**, **GitLab CI/CD** and Jenkins, cutting average deployment time from 90 minutes to under **15 minutes** across 6 product teams.
- Managed AWS infrastructure with **Terraform**, enforcing consistent tagging, network segmentation and IAM least-privilege policies.
- Built a centralized observability stack (**Prometheus + Grafana**) with alerts for CPU, memory, health and request latency, reducing mean time to detect by **50%**.
- Standardized Docker image builds with multi-stage Dockerfiles, reducing final image sizes by **60%** and pushing to AWS ECR with automated vulnerability scanning at each pipeline stage.
- Implemented secrets management and environment-specific config injection across pipelines, eliminating hard-coded credentials in **100%** of deployed repositories.
- Cut a client's infrastructure cost from **GBP 9,000 to GBP 3,000 per month** by moving dev environments to on-premises servers and replacing purchased public IPs with **Cloudflare Tunnel** secured by VPN.

DevOps Engineer · Northbay Solutions

Oct 2022 – Apr 2023

Lahore, Pakistan

- Containerized monolithic applications with **Docker** for reproducible, environment-agnostic deployment on AWS EC2.
- Configured AWS infrastructure (EC2 Auto Scaling groups, ALBs, RDS, S3), improving application availability to **99.5% uptime**.
- Wrote **Bash** and **Python** automation for log rotation, backups, health checks and alerting, saving **8+ hours per week** of manual ops work.
- Managed **Linux** servers (Ubuntu, Amazon Linux), including patching, user access controls and firewall rules.

Application Developer · DevSmith

Oct 2021 – Jul 2022

Lahore, Pakistan

- Built chat room and ticketing features for a Flutter-based application.
- Built a Bitcoin wallet application and a WhatsApp media backup application.

OPEN SOURCE PROJECTS

EKS Platform: Terragrunt + Kustomize + Argo CD + Jenkins github.com/Kamrank47/eks-jenkins-argocd-deployment

Multi-environment EKS platform provisioned with Terragrunt-orchestrated Terraform modules across dev and prod, with encrypted S3 remote state and DynamoDB locking. KMS envelope encryption for secrets, IMDSv2 enforced through a launch template, and the EKS public endpoint restricted to an allow-listed CIDR. Jenkins builds and scans images and updates Kustomize overlays; Argo CD syncs; Argo Rollouts runs blue-green cutovers gated by a pre-promotion smoke test.

Terraform, Terragrunt, EKS, Kustomize, Argo CD, Argo Rollouts, Jenkins, Helm

EC2 Terraform Deployment github.com/Kamrank47/ec2-terraform-deployment

Cost-optimized EC2 platform with Auto Scaling and ALB, CodeDeploy blue/green releases, and artifacts staged in S3. GitHub Actions authenticates to AWS through **OIDC** with no long-lived keys. Self-hosted Prometheus, Loki and Grafana scrape the fleet over security-group-scoped ports. SQS queues with per-queue dead-letter queues feed Lambda consumers for transactions, notifications and event ingestion.

Terraform, EC2, CodeDeploy, GitHub OIDC, SQS, Lambda, Prometheus, Loki, Grafana

ECS Terragrunt Deployment github.com/Kamrank47/ecs-terragrunt-deployment

ECS Fargate service behind an Application Load Balancer with CPU and memory autoscaling, optional ACM TLS and path-based API routing. Reusable Terraform modules orchestrated with Terragrunt across dev and prod, with a VPC across two availability zones and security groups scoped per tier. Self-managed PostgreSQL and Redis data tier, with CodePipeline and CodeBuild delivery reporting into Slack.

Terraform, Terragrunt, ECS Fargate, ALB, ECR, CodePipeline, SSM, PostgreSQL, Redis

GitLab CI/CD Pipelines: .NET on IIS + Angular on Cloudflare Pages github.com/Kamrank47/gitlab-cicd-dotnet-angular-pipelines

Two production pipelines on self-hosted GitLab runners covering a five-environment branching model. The .NET pipeline stops the app pool, serves an offline page, backs up the previous release, copies the new build and polls Swagger until healthy. The Angular pipeline injects environment config, runs a SonarQube gate on merge requests and deploys to Cloudflare Pages with Wrangler. Production deploys require a manual trigger.

GitLab CI/CD, .NET, IIS, PowerShell, Angular, Cloudflare Pages, SonarQube

EDUCATION

B.S. Computer Science · Lahore Garrison University, Lahore, Pakistan 2021

Coursework: Operating Systems, Computer Networks, Distributed Systems, Cloud Computing

CERTIFICATIONS

AWS Solutions Architect · Pasha

PUBLICATIONS

Technical articles on Medium: **medium.com/@kamranali.k47**