

Rattanjot Singh Tiwana

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SKILLS

SCM & CI/CD: Github Actions, Git, Gitlab, Jenkins, AWS CodePipeline, GitLab CI/CD, ArgoCD

Cloud Platforms: AWS (EC2, S3, RDS, VPC, Lambda, IAM, EKS, ALB), GCP (GKE, Cloud Build, GCR)

Containers & Orchestration: Docker, EKS, ECS, GKE, Docker Compose, Kustomize, Helm

Monitoring & Logging: Prometheus, Grafana, Amazon Cloud Watch

Infrastructure as Code: Terraform

Other Tools & Technologies: Linux, JSON, Python, Bash, YAML, KMS encryption, GitHub, Shell Scripting, NGINX

WORK EXPERIENCE

AI DevOps Engineer Intern

Jan 2025 - April 2025

Ameya Cloud Solutions - Mississauga, ON

- Streamlined development CI/CD workflows using Github Actions and delivered features faster with fewer errors.
- Containerized a FastAPI app with integrated LLM using Docker and reducing build time by 30%.
- Built and optimized cloud infrastructure using Terraform, ensuring high availability and reliable deployments on AWS.
- Automated Docker builds via GitHub Actions for consistent, testable CI environments.
- Created multiple Terraform modules to manage configurations, applications, services and installation process for Web Server and AWS instances.
- Deployed applications into the AWS cloud using Amazon EC2, VPC, AWS S3, Cloud Watch and Route 53.
- Streamlined app deployments with Helm on Kubernetes, cutting release time and reducing manual errors.
- Implemented and maintained the monitoring and alerting of production servers using CloudWatch.
- Implemented a production ready, load balanced, highly available, fault tolerant Kubernetes infrastructure.
- Strong ability to troubleshoot any issues generated while building, deploying and in production support.

DevOps Engineer

Jun 2022 - July 2023

Techkaleido - Mohali, Punjab, India

- Implemented Conditional CI/CD Workflows Based on Code Ownership to improve team-specific automation.
- Created Dockerfile and automated docker image creation using Jenkins and Docker.
- Strengthened AWS resource security by implementing custom IAM roles with least-privilege access controls.
- Used Terraform and GitHub Actions to auto-provision temporary environments for every pull request, enabling isolated QA testing and eliminating "it works on my machine" issues.
- Containerized and versioned all build artifacts using Git commit hashes and stored them in ECR/S3 with automated drift detection alerts using custom AWS Lambda functions.
- Used Git branching strategies (GitFlow, trunk-based) to support continuous integration and smooth code merges.
- Conducted performance tuning and resource optimization on cloud infrastructure to reduce cost and reduce latency.

PROJECT WORK

CI/CD Migration Jenkins To GitHub Actions Workflow:

GitHub: [Code Link](#)

- Translated complex Jenkins pipelines including multi stage builds, parallel jobs, and environment-specific deployments into modular GitHub Actions workflows, enhancing maintainability and reducing execution time by 40%.
- Automated the audit and migration of legacy Jenkins pipelines using GitHub Actions Importer with custom transformers, enabling a seamless transition while preserving pipeline logic, secrets, and artifact handling across teams.

Automated GCP Deployment for Scalable Flask Microservice:

GitHub: [Code Link](#)

- Designed a CI/CD pipeline on GCP using Cloud Build, Docker, and GKE to automate containerization, image versioning and zero-downtime Kubernetes deployments.
- Enabled multi-environment support through Cloud Build substitutions and centralized monitoring via Cloud Logging.

E-Commerce Application Deployment on EKS:

- Built a complete CI/CD pipeline to automate testing, containerization, and deployment to AWS.
- Provisioned complete infrastructure using Terraform, including VPC, subnets, security groups, IAM roles, and EKS clusters, enabling repeatable and version controlled infrastructure deployment.

EDUCATION

Lambton College – Toronto, ON <i>DevOps for Cloud Computing (DOCT)</i> Relevant Coursework: Network Foundations, Distributed Systems and Cloud Computing, Database Design, CI/CD and Configuration Management, Linux Server Admin, Containerization and Container Delivery	Sept 2023 - Apr 2025 CGPA: 3.18/4
Punjabi University, Patiala – Punjab, India <i>Bachelor of Computer Applications (BCA)</i> Relevant Coursework: Computer Organization and Architecture, Management Information System, Programming in Java	May 2019 - May 2022 Percentage: 79.07%

CERTIFICATES

Certified Kubernetes Administrator (CKA) <i>The Linux Foundation</i> Credential ID: View Credential Validated advanced skills in Kubernetes cluster administration, including troubleshooting, networking, and workloads orchestration—demonstrating readiness to manage production-grade containerized infrastructure at scale.	May 2025
GitHub Actions Certification <i>KodeKloud</i> Credential ID: View Credential Mastered CI/CD workflows with GitHub Actions, focusing on pipeline creation, automation, and deployment strategies.	Mar 2025