

PROJECTS

- Cloud-Native CI/CD Platform** | *GitHub Actions, Kubernetes, Helm, ArgoCD, AWS* 2025
- Designed and implemented a robust CI/CD platform using GitHub Actions, Helm, and ArgoCD for automated deployments to AWS EKS.
 - Enabled blue-green deployments, automated rollbacks, and integrated monitoring for zero-downtime releases.
- Infrastructure as Code Automation** | *Terraform, Ansible, AWS, Azure, GCP* 2024
- Automated multi-cloud infrastructure provisioning and configuration management using Terraform and Ansible.
 - Standardized environments across AWS, Azure, and GCP, reducing manual errors and deployment time by 70%.
- MLOps Pipeline for Model Lifecycle** | *Kubeflow, MLflow, Airflow, Docker, GCP* 2024
- Built an end-to-end MLOps pipeline for model training, validation, deployment, and monitoring using Kubeflow, MLflow, and Airflow on GCP.
 - Implemented automated retraining, model versioning, and canary deployments with Dockerized workflows.
- Observability and Monitoring Stack** | *Prometheus, Grafana, ELK, Alertmanager* 2023
- Deployed a centralized observability stack for microservices using Prometheus for metrics, Grafana for dashboards, and ELK for log aggregation.
 - Configured Alertmanager for proactive incident response and integrated with Slack for real-time notifications.
- Serverless Event-Driven Architecture** | *AWS Lambda, S3, DynamoDB, API Gateway* 2023
- Developed a serverless event-driven system for data processing and notifications using AWS Lambda, S3, and DynamoDB.
 - Exposed RESTful APIs via API Gateway and implemented monitoring with AWS CloudWatch.
- Automated Security and Compliance** | *HashiCorp Vault, SonarQube, Trivy, Azure DevOps* 2022
- Implemented automated security scanning and compliance checks in CI/CD pipelines using SonarQube and Trivy.
 - Managed secrets and access control with HashiCorp Vault and integrated policy enforcement in Azure DevOps.
- Cost-Optimized Multi-Cloud Deployment** | *Pulumi, Kubernetes, GCP, AWS, Azure* 2022
- Orchestrated multi-cloud deployments using Pulumi and Kubernetes, optimizing resource allocation and cost across GCP, AWS, and Azure.
 - Automated scaling and failover for high availability and business continuity.