Ziyad Tarek

DevOps Engineer | SRE

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 https://github.com/ziyad-tarek1 Credly https://credly.com/users/ziad-tarek.180 🛡 Military Service: Completed

Profile

DevOps Engineer with hands on experience building and optimizing cloud-native infrastructure on AWS. Proven track record in reducing infrastructure costs by 35% and CI/CD expenses by 60% through strategic automation and resource optimization. Experienced in designing disaster recovery solutions, implementing GitOps workflows, and managing production Kubernetes clusters. Hold multiple industry certifications including CKA, CKAD, KCSA, KCNA, Terraform Associate, and AWS Cloud Practitioner.

Education

Information Technology Institute (ITI-MCIT)   10/2024 – 07/2025 | Alexandria, Egypt
System Administration Track - 9-month Intensive Program

Alexandria University - Faculty of Engineering   2017 – 2022 | Alexandria, Egypt
Bachelor's Degree in Electrical Engineering
Department: Communications & Electronics | Grade: Good

Professional Experience

SRE/DevOps Engineer   01/2025 – Present | Cairo, Egypt
Rabbit Mart 🔗
- **Infrastructure & Cost Optimization**
  - Reducing infrastructure costs by 35% by implementing Karpenter and Horizontal and Vertical Pod Autoscaling
  - Optimizing Kubernetes autoscaling with Karpenter, improving resource utilization by 40%
  - Cutting CI/CD costs by 60% through migration to self-hosted GitHub Actions runners
- **CI/CD & Automation**
  - Built and maintaining CI/CD pipelines using GitHub Actions, Docker, Kubernetes, Helm, and Terraform
  - Migrated legacy AWS resources to Terraform-managed infrastructure and creating disaster recovery capabilities
  - Automating deployment workflows reducing manual intervention and deployment time
- **Database Management & Performance**
  - Administering RDS MySQL and PostgreSQL databases.
  - Optimizing and montoring database performance through query tuning and resource allocation
  - Implemented automated backup strategies and cross-region replication for business continuity
- **Container Orchestration & Infrastructure**
  - Designing and deploying production ready Helm charts for Redis, MySQL, PostgreSQL, and other self-hosted tools
  - Created disaster recovery plan for EKS clusters using Velero with automated backup and restore procedures
  - Managing multi-cluster Kubernetes environments with focus on high availability
- **AI/ML & Data Engineering**
  - Deployed Vertex AI jobs to collect data from BigQuery and store in MySQL RDS for analytics pipelines
  - Built and deployed chatbot agent with integrated Langfuse monitoring for performance tracking and optimization
- **Security & Secrets Management**
  - Deployed HashiCorp Vault for centralized secret management with automated rotation policies
  - Migrated WAF logs to Elasticsearch and Kibana for centralized security monitoring and threat analysis
  - Implementing security best practices across infrastructure components
  - Integrated Trivy for container image vulnerability scanning in CI/CD pipelines
  - Deployed SonarQube for static application security testing (SAST) and code quality analysis
  - Automating security scanning workflows with shift-left security practices
- **Observability & Monitoring**
  - Deployed EFK stack (Elasticsearch, Fluentd, Kibana) and Loki for centralized logging
  - Integrated DataDog for comprehensive observability including dashboards, alerts, and APM monitoring
  - Built monitoring solutions to track application performance and infrastructure health

System Administrator   06/2024 – 10/2024 | Alexandria, Egypt
Sutherland Global Services 🔗
Provided technical support for 200+ users with a 95% resolution rate and automated admin tasks via Bash/Python, improving efficiency by 30%. Collaborated globally to maintain system stability and ensure audit compliance.

Part-time System Administrator   09/2022 – 04/2023 | Cairo, Egypt
EgyProTech Company 🔗

Technical Skills

Cloud & Infrastructure
AWS, GCP, Terraform, Infrastructure as Code
Container & Orchestration
Kubernetes, Docker, Helm, Karpenter, EKS, OpenShift, Argo Rollouts
CI/CD & GitOps
GitHub Actions, Jenkins, GitLab CI, ArgoCD, CircleCI
Observability & Monitoring
Prometheus, Grafana, DataDog, EFK Stack (Elasticsearch, Fluentd, Kibana), Logstash, Loki, Kubecost
Configuration Management & Automation
Ansible, Bash Scripting, Python Scripting
Security & Secrets Management
HashiCorp Vault, AWS Secrets Manager
Databases
MySQL, PostgreSQL, MongoDB and Redis.
Backup & Disaster Recovery
Velero, AWS EKS Backup Cross-region Replication, Automated Backup Strategies
Web Servers & Load Balancing
Apache, Nginx
Version Control & Collaboration
Git, GitHub, GitLab, Agile Methodologies
Operating Systems & Virtualization
Linux Administration (RHEL, Ubuntu), Windows Server

Certificates

Kubernetes
- **Certified Kubernetes Administrator (CKA)** 🔗
- **Certified Kubernetes Application Developer (CKAD)** 🔗
- **Kubernetes and Cloud Native Security Associate (KCSA)** 🔗
- **Kubernetes and Cloud Native Associate (KCNA)** 🔗

Cloud & Infrastructure
- **AWS Certified Cloud Practitioner (CLF-C02)** 🔗
- **HashiCorp Certified: Terraform Associate (003)** 🔗
- **Huawei Certified Cloud Developer Associate (HCCDA)**

System Administration
- **Red Hat Certified System Administrator (RHCSA)** 🔗

Development & Collaboration
- **GitHub Foundations** 🔗

Projects

Advanced Monitoring and Canary Deployments on AWS EKS 🔗
- Deployed scalable Python-based Todo application on AWS EKS with production-grade monitoring
- Implemented canary deployment strategy using Flagger for zero-downtime releases
- Built comprehensive observability solution using Prometheus, Grafana, and ELK stack
- Automated CI/CD pipelines using CircleCI and ArgoCD
- Integrated AWS Secrets Manager for secure environment variable management
Technologies: AWS EKS, Terraform, CircleCI, ArgoCD, Flagger, Prometheus, Grafana, ELK Stack, AWS Secrets Manager

End-to-End Kubernetes Three-Tier DevSecOps Pipeline 🔗
- Built automated DevSecOps pipeline using GitHub Actions and Terraform
- Provisioned AWS infrastructure including EKS cluster, bastion host, and monitoring add-ons
- Deployed three-tier application with blue-green deployment strategy using Argo Rollouts
- Integrated security scanning with Trivy and SonarQube for code quality and vulnerability detection
Technologies: AWS, EKS, Terraform, GitHub Actions, Jenkins, ArgoCD, Argo Rollouts, Trivy, SonarQube

Automated AWS EKS Deployment with GitOps & CI/CD 🔗
- Automated AWS EKS infrastructure provisioning using Terraform with complete infrastructure as code
- Implemented GitOps workflows using ArgoCD for declarative application deployment
- Deployed self-hosted GitHub Actions runners to reduce CI/CD costs
- Integrated monitoring stack with Prometheus and Grafana for real-time observability
Technologies: AWS EKS, Terraform, GitHub Actions, ArgoCD, Prometheus, Grafana