

Mohamed Gaafar

Cloud DevOps Engineer

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Professional Summary

Results-oriented Cloud DevOps Engineer with expertise in designing and automating scalable infrastructure on AWS and Hybrid Cloud environments. Deeply proficient in Linux system administration, Infrastructure as Code (Terraform), and container orchestration (Kubernetes, ECS Fargate). Proven track record of optimizing application performance, enhancing security posture, and reducing deployment times through robust CI/CD pipelines.

Technical Skills

- **Cloud & Infrastructure:** AWS (ECS Fargate, RDS, S3, VPC, ALB, IAM), Hetzner Cloud, Linux Administration (RHEL/Ubuntu).
- **DevOps & IaC:** Terraform (v5), Kubernetes (K8s), Helm, Docker, Ansible.
- **CI/CD & Automation:** GitHub Actions, Jenkins, Bash Scripting, PowerShell.
- **Web Servers & Networking:** Nginx (Reverse Proxy), SSL/TLS, DNS, Firewalls (UFW, Security Groups).
- **Database & Monitoring:** Prometheus, Grafana, PostgreSQL, AWS RDS, Redis, AWS CloudWatch.
- **Programming:** Python, SQL.

Professional Experience

DevOps Engineer

Dec 2025 – Present

CPAflows

Remote

- **K8s & Infrastructure as Code:** Architected and provisioned a scalable Kubernetes cluster on Hetzner Cloud using Terraform, migrating from a legacy Docker Compose setup to a highly available container orchestration environment.
- **Linux Administration:** Managed and hardened Linux-based worker nodes, optimizing kernel parameters for high-throughput networking and automating OS patching to ensure system stability.
- **Observability Stack:** Deployed a comprehensive monitoring solution using Prometheus and Grafana, creating custom dashboards to visualize cluster metrics and replace manual log file analysis.
- **CI/CD Optimization:** Engineered robust GitHub Actions pipelines to automate Docker builds and Helm chart deployments, reducing build and deployment times by approximately 40%.
- **Traffic Management:** Configured Nginx Ingress controllers for secure load balancing and SSL/TLS termination (Let's Encrypt), implementing rate limiting to protect microservices.

Cloud DevOps Engineer

May 2025 – Nov 2025

FiscalX Professional Corporation

Toronto, Canada

- **Infrastructure Modernization:** Architected a fully automated, cloud-native infrastructure on AWS, migrating manual processes to Terraform (IaC) modules with state management via S3 and DynamoDB locking.
- **Container Orchestration:** Deployed and managed 5+ microservices using AWS ECS Fargate, designing distinct Task Definitions with optimized resource allocation to ensure high availability and auto-scaling.
- **Security Implementation:** Enforced a "Least Privilege" model using AWS IAM and Security Groups. Migrated hardcoded credentials to AWS Secrets Manager, significantly enhancing the security posture.
- **Network Architecture:** Automated the provisioning of VPCs, Public/Private Subnets, and Application Load Balancers (ALB), isolating internal traffic and securing public endpoints.
- **Database Management:** Provisioned and managed AWS RDS (PostgreSQL) instances, implementing automated backup strategies and performance tuning for high-throughput workloads.

DevOps Engineer Intern

Jun 2024 – May 2025

DolphinED

Remote

- **Kubernetes Operations:** Containerized legacy applications and deployed them to Kubernetes clusters, managing pods, services, and deployments to ensure application scalability.
- **Pipeline Automation:** Designed and implemented CI/CD pipelines using Jenkins and GitHub Actions, automating the testing and delivery lifecycle.
- **Monitoring:** Set up operational dashboards using Prometheus and Grafana to visualize cluster health and application metrics.

Mechatronics Engineer Intern

Aug 2021 – Sep 2021

ABB

Cairo, Egypt

- Assisted in designing electrical and hardware systems, improving my understanding of industry best practices in engineering and automation.

Education

Graduate Certificate in Artificial Intelligence and Machine Learning

Jan 2024 – Aug 2025

Lambton College

Toronto, Canada

Bachelor of Science in Mechatronics Engineering

Sep 2018 – Jan 2023

Mansoura University

Mansoura, Egypt