Abdelrahman Ahmed Sr. Site Reliability Engineer

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GitHub HackerRank LeetCode

PROFESSIONAL SUMMARY

Senior SRE / DevOps / Cloud Engineer with 7 years of experience designing, automating, and operating large-scale distributed systems on **AWS** and **Kubernetes**. Strong background in reliability engineering, **CI/CD**, **Terraform**, **Kafka**, **observability**, **troubleshooting**, **Python** automation, high availability, and cloud-native architecture, with hands-on experience applying **MCP, RAG**, and **agentic workflows** to automate SRE operations.
Certified Kubernetes Application Developer (CKAD) .

PROFESSIONAL EXPERIENCE

Senior Site Reliability Engineer Nov 2023 – present | Cairo, Egypt
Careem

- Designed, operated, and improved the reliability of large-scale **infrastructure platforms**, including **Kafka on Kubernetes, Redis/ElastiCache, and RDS**, with Kafka pipelines **processing millions of events weekly**.
- Built a Kafka platform operator to automate resource lifecycle orchestration, improve consistency, and reduce repetitive operational work.
- Automated SRE operations using **Python, CI/CD workflows, and MCP servers**, enabling **LLM-assisted** investigation and **reducing manual on-call intervention by ~30–40%**.
- Contributed to an **agentic RAG remediation workflow** that maps engineering findings to service ownership, retrieves service context, assesses required fixes, and opens pull requests against affected repositories.
- Contributed to automated **database migration** workflows that assess change risk and select between direct execution and Blue/Green strategies.
- Handled **production incidents** across Kubernetes, Kafka, databases, networking, and application dependencies, using Prometheus, Grafana, Dynatrace, and AWS observability tooling.
- Supported **cross-regional engineering teams** across Egypt, Jordan, Pakistan, UAE, Saudi Arabia, and Germany.
- **Tech Stack:** Kubernetes, Kafka, Python, AWS, Terraform, CI/CD, Docker, Prometheus, Grafana, Dynatrace, eBPF, Redis, RDS, MCP, RAG.

Software Engineer II Dec 2022 – Nov 2023 | Cairo, Egypt
Dell Technologies

- Designed and deployed High Availability architecture using Kubernetes, Longhorn, MetalLB, and Ingress for telecom-grade applications.
- Automated dependency installation and OS compatibility, reducing environment setup time by **~50%**.
- Enhanced security posture by resolving Linux OS vulnerabilities (Red Hat).
- Built internal automation scripts using Python to streamline data collection from telecom sites.
- Maintained and provisioned VM environments to support engineering teams.
- Worked with cross-regional engineering teams (Egypt, USA, India) to deliver scalable telcom applications.
- **Tech Stack:** Kubernetes, Python, Docker, Linux, Ansible, CI/CD, Bash.

AI & Automation Engineer Jun 2021 – Dec 2022 | Cairo, Egypt
Vodafone Intelligent Solutions: _VOIS

- Built and tested automation workflows using **UiPath**, improving operational processes for global teams (Italy, India, Egypt).
- Delivered **4 automation solutions** handling ~400 requests/month with **75–95% performance improvements**.
- Supported automation platform reliability and scalability, integrating solutions with **AWS** and **Node.js** backends.
- Recognized as a **TOP PERFORMER** for 2022 across the team.
- **Tech Stack:** UiPath, AWS, Node.js

Software Engineer Jan 2020 – Jun 2021 | Cairo, Egypt
ITWorx

- Developed cloud-enabled web apps using **Angular**, **.NET Core**, and **Azure**, supporting real-time data flows and offline-first design using browser database.
- Built a voice-processing module using Azure Speech services and implemented real-time notifications via **SignalR**.

- Delivered a workflow automation system (medical leaves application) serving **400–500 users**, improving process efficiency.
- Awarded an **ITWorx Certificate of Recognition** for contributions to product delivery.
- **Tech Stack:** Angular, ASP.NET Core, Azure, PostgreSQL, ag-grid, AgilePoint

EDUCATION

Faculty of Engineering – Cairo University Oct 2014 – Aug 2019 | Cairo, Egypt
Bachelor's degree in Electronics and Communication Engineering.

PROJECTS

Infrastructure Automation
- Designed and automated microservices deployment for telco and messaging technologies with Kubernetes, Terraform, and CI/CD pipelines.

Kafka MCP Server
- Developed an MCP server that connects LLM tools to Kafka, enabling real-time access to topic consumers, Kafka users, schemas, and automated insights using AI-driven interfaces.

Monitoring Stack
- Deployed Prometheus + Grafana and Dynatrace dashboards for distributed systems (latency, SLIs, SLOs).

Messaging Platform Optimization
- Built scalable Kafka/RabbitMQ pipelines supporting mission-critical services.

Kinesis to Kafka Bridge
- Built a streaming bridge to stream the real-time events from Kinesis to Kafka.

Glass House Data Capture: GDC

- Built a web application for agricultural scientists, designed to manage scientific experiments on plants, monitor the results of chemical compounds, and calculate and validate these results against the business criteria.

SKILLS

Cloud & Infrastructure: AWS (EC2, IAM, S3, Lambda, EKS, Secrets Manager, Kinesis), GCP, Azure

Containers & Orchestration: Docker, Kubernetes (EKS, GKE), Helm, Kustomize, ArgoCD

CI/CD: GitHub Actions, Jenkins, GitLab CI, AWS CodePipeline

Infrastructure as Code: Terraform, Ansible

Programming languages / Scripting: Python, C++, Go, Bash

Monitoring & Observability: Prometheus, Grafana, Dynatrace

Messaging & Streaming: Kafka, RabbitMQ

Linux & Networking: Red Hat, Ubuntu, HA design, load balancers, distributed systems, eBPF

AI & Agentic Systems:: LLMs, RAG, MCP, AI Agents

COURSES

Certified Kubernetes Administrator Course (CKA)
Udemy

Using Kubernetes as a Developer
Pluralsight

Certified Kubernetes Application Developer Course (CKAD)
Udemy

GitHub Actions - The Complete Guide
CI/CD - Udemy

Git and GitHub
Coursera | Google

Terraform Associate
Udemy

Learning Docker
LinkedIn Learning

Databases with Python
Coursera | University of Michigan

AWS Certified Developer
Udemy

Critical thinking and Problem Solving
LinkedIn Learning | PMI

AWS Certified Cloud Practitioner Course
Udemy

Python Data Structures
Coursera | University of Michigan