Abdelrahman Ahmed

Technical Instructor l Sr. Site Reliability Engineer

abdelrhman.a.ibrahim@gmail.com +201016099224 | +201202004990 Cairo, Egypt LinkedIn
GitHub HackerRank LeetCode Medium

Professional Summary

Technical Instructor, Course Creator, and Senior SRE with 7 years of experience delivering cloud and software education across Udacity, NTI, CNBC, and Junction-it. Combines deep expertise in Python, AWS, Kubernetes, and DevOps; applying MCP, RAG, and agentic workflows with hands-on enterprise engineering background (Careem, Dell, Vodafone, ITWorx). **Certified Kubernetes Application Developer (CKAD)** .

Professional Experience

Programming Instructor l Session Lead, *Udacity* 09/2022 – 01/2026
Remote

- Delivered engaging technical lectures and hands-on guidance covering **Python** programming, **web development** essentials, and **cybersecurity** principles.
- Guided learners through complex coding assignments, capstone projects, and debugging sessions to build production-ready engineering mindsets.
- **Tech Stack:** Python, Web Development, Cyper Security principles.

Cloud Instructor, *National Telecommunication Institute (NTI)* 06/2025 – 06/2026
Cairo, Egypt

- Delivered the **AWS Cloud Developer** certification training to **multiple cohorts** of engineering students and aspiring cloud professionals.
- Mentored students through real-world scenarios, labs, and exercises to bridge the gap between academic theory and industry cloud practices.
- **Tech Stack:** AWS, Python, boto3.

Technical Course Creator, *Cloud Native Base Camp* 01/2026 – 08/2026
Remote

- Created and recorded a comprehensive course: *Git & GitHub for Production Teams*.
- Designed curriculum tailored to help developers learn and apply **Git and GitHub principles in production environments**, managing complex team workflows at scale with real-world simulation scenarios (Course Link).
- **Tech Stack:** Git, GitHub, HTML, CSS, JS

Python & MATLAB Instructor, *Junction-it Educational Center* 01/2018 – 12/2020
Cairo, Egypt

- Taught Python and MATLAB engineering applications over a 3-year tenure to student engineers.
- Instructed students on applying MATLAB to solve communication and mechanical engineering problems.
- Taught practical Python application building and automation script creation for engineering workflows.
- **Tech Stack:** Matlab, Python

Senior Site Reliability Engineer, *Careem* 11/2023 – present
Cairo, Egypt

- Operated and scaled large distributed systems on **AWS** and **Kubernetes**, processing millions of weekly events using **Kafka**. Automated **SRE** operations with Python and built **LLM-assisted agentic RAG and MCP** workflows to streamline incident response.
- **Tech Stack:** Kubernetes, Kafka, Python, AWS, Terraform, CI/CD, Docker, Prometheus, Grafana, Dynatrace, eBPF, Redis, RDS, MCP, RAG.

Software Engineer II, *Dell Technologies* 12/2022 – 11/2023
Cairo, Egypt

- Designed telecom-grade High Availability architectures using **Kubernetes** and **Longhorn**, cutting setup times by 50% through automated dependency installations and Python scripting.
- **Tech Stack:** Kubernetes, Python, Docker, Linux, Ansible, CI/CD, Bash.

AI & Automation Engineer, *Vodafone Intelligent Solutions: _VOIS* 06/2021 – 12/2022
Cairo, Egypt

- Developed automated workflows utilizing UiPath, AWS, and Node.js, delivering performance improvements up to 95% and recognized as a Top Performer for 2022.
- **Tech Stack:** UiPath, AWS, Node.js

Software Engineer, *ITWorx* 01/2020 – 06/2021
Cairo, Egypt

- Developed cloud-enabled web applications using Angular, .NET Core, and Azure, implementing offline-first architecture, voice-processing modules, and workflow automation systems.
- **Tech Stack:** Angular, ASP.NET Core, Azure, PostgreSQL, ag-grid, AgilePoint

Education

Bachelor's degree in Electronics and Communication Engineering., 10/2014 – 08/2019
Faculty of Engineering – Cairo University Cairo, Egypt

Skills

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

CI/CD & Version Control
GitHub Actions, Jenkins, GitLab CI, AWS CodePipeline

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

Messaging & Streaming
Kafka, RabbitMQ

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

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

Infrastructure as Code
Terraform, Ansible

Monitoring & Observability
Prometheus, Grafana, Dynatrace

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

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.

Languages

- Arabic
- English