

Mohamed Gomaa

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Professional Summary

Backend and Cloud Engineer specializing in **cloud-native platforms, infrastructure automation, and developer tools**. Built scalable backend systems and internal platforms that **reduce architecture design time by up to 90%** and **cut cloud costs by 30–50%**. Strong experience with AWS, serverless architectures, and Infrastructure as Code, with a focus on reliability, cost efficiency, and platform engineering.

Experience

Founder & Backend / Cloud Engineer — CloudCanvas	2025 – Present
<i>Smart Cloud Architecture Design & IaC Automation Platform</i>	
<ul style="list-style-type: none">Built a visual platform enabling engineers to design AWS, GCP, and Azure architectures and automatically generate production-ready IaC.Reduced architecture design and implementation time by up to 90% by converting diagrams into Terraform, Pulumi, and CloudFormation code.Developed a real-time cloud cost estimation engine exposing hidden operational costs (data transfer, NAT, inter-AZ traffic), reducing unexpected spend by 30–50%.Implemented a solution marketplace for reusable, validated architecture templates, accelerating project kick-off for teams and companies.	

Certifications

[AWS Certified Solutions Architect – Associate]	Oct 2025
[AWS Certified Cloud Practitioner]	Jun 2025

Education

Faculty of Science, Assiut University Bachelor of Computer Science	Oct 2021 – Jun 2025
	GPA: 3.3 / 4.0 — Assiut, Egypt

Projects

Serverless E-Commerce Platform [GitHub Repo]	Sep 2025 – Oct 2025
<ul style="list-style-type: none">Migrated a production e-commerce system from EC2-based microservices to a fully serverless architecture using AWS Lambda, API Gateway, and DynamoDB, reducing infrastructure costs by 70%.Designed and automated infrastructure as code and CI/CD pipelines with Terraform and GitHub Actions, enabling blue/green deployments and reducing manual deployment effort by 90%.Improved API response latency by 45% through Redis caching (ElastiCache) and achieved zero-downtime deployments, successfully handling over 5K concurrent requests using Go concurrency (goroutines), CloudWatch monitoring, and AWS scaling mechanisms.Implemented FastAPI (Python) and Go (Gin) backends deployed as containerized Lambda functions, integrated with RDS Proxy, SNS/SQS, and AWS Step Functions to support scalable, event-driven workflows.	

Easy Deploy Platform (Graduation Project)

<ul style="list-style-type: none">Designed and built a DevOps automation platform that deploys GitHub-hosted applications to AWS with zero manual intervention, reducing deployment time by 85%.Automated end-to-end infrastructure provisioning and configuration using Terraform and Ansible, ensuring consistent environments across stages and achieving 99.9% service availability.Implemented CI/CD pipelines using GitHub Webhooks, Docker, Amazon ECS, CodePipeline, and CodeBuild to enable real-time, continuous deployments.Integrated Amazon EFS as a shared persistent file system to store cloned GitHub repositories, allowing multiple containers and ECS tasks to securely access and modify application code concurrently.Architected a secure shared VPC with segmented public and private subnets, applying network isolation.Added observability and monitoring using Amazon CloudWatch (logs, metrics, alarms) to track application health, detect failures, and enable rapid incident response.	
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Technical Skills

Programming: Python, C#, JavaScript/TypeScript, Go, Bash Script

Backend: FastAPI, Django, ASP.NET Core, Node.js (Express.js), Gin

Databases: PostgreSQL, MySQL, MongoDB, DynamoDB, Redis

Cloud : AWS (EC2, Lambda, ECS, API Gateway, ECR, S3, RDS, CloudFront, CloudWatch, IAM, VPC)

DevOps: Linux, Docker, Kubernetes, ArgoCD, Terraform, Ansible, GitHub Actions, Prometheus, Grafana