

# 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

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

## Certifications

<a href="#">[AWS Certified Solutions Architect – Associate]</a>	Oct 2025
<a href="#">[AWS Certified Cloud Practitioner]</a>	Jun 2025

## Education

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

## Projects

<b>Serverless E-Commerce Platform</b> <a href="#">[GitHub Repo]</a>	Sep 2025 – Oct 2025
<ul style="list-style-type: none"><li>Migrated a production e-commerce system from EC2-based microservices to a fully <b>serverless architecture</b> using <b>AWS Lambda, API Gateway, and DynamoDB</b>, reducing infrastructure costs by <b>70%</b>.</li><li>Designed and automated <b>infrastructure as code</b> and CI/CD pipelines with <b>Terraform</b> and <b>GitHub Actions</b>, enabling <b>blue/green deployments</b> and reducing manual deployment effort by <b>90%</b>.</li><li>Improved API response latency by <b>45%</b> through <b>Redis caching (ElastiCache)</b> and achieved <b>zero-downtime deployments</b>, successfully handling over <b>5K concurrent requests</b> using <b>Go concurrency (goroutines)</b>, <b>CloudWatch monitoring</b>, and AWS scaling mechanisms.</li><li>Implemented <b>FastAPI (Python)</b> and <b>Go (Gin)</b> backends deployed as containerized Lambda functions, integrated with <b>RDS Proxy, SNS/SQS, and AWS Step Functions</b> to support scalable, event-driven workflows.</li></ul>	
<b>Easy Deploy Platform (Graduation Project)</b>	
<ul style="list-style-type: none"><li>Designed and built a <b>DevOps automation platform</b> that deploys GitHub-hosted applications to AWS with <b>zero manual intervention</b>, reducing deployment time by <b>85%</b>.</li><li>Automated end-to-end infrastructure provisioning and configuration using <b>Terraform</b> and <b>Ansible</b>, ensuring consistent environments across stages and achieving <b>99.9% service availability</b>.</li><li>Implemented <b>CI/CD pipelines</b> using <b>GitHub Webhooks, Docker, Amazon ECS, CodePipeline, and CodeBuild</b> to enable real-time, continuous deployments.</li><li>Integrated <b>Amazon EFS</b> as a shared persistent file system to store cloned GitHub repositories, allowing <b>multiple containers and ECS tasks</b> to securely access and modify application code concurrently.</li><li>Architected a <b>secure shared VPC</b> with segmented <b>public and private subnets</b>, applying network isolation.</li><li>Added <b>observability and monitoring</b> using <b>Amazon CloudWatch</b> (logs, metrics, alarms) to track application health, detect failures, and enable rapid incident response.</li></ul>	

## 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