

# Rami Adel Shawky

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## Profile

Backend Engineer specializing in Python (Django/DRF, Flask) with growing DevOps expertise in containerization, orchestration, and cloud infrastructure. Experienced in building REST APIs, microservices architectures, and deploying applications with CI/CD automation. Proficient in database design, caching strategies, and cloud-native deployment patterns.

## Experience

### Python Backend Developer

*Freelance*

Jan 2025 – Present

*Remote*

- Delivered 4+ production-grade backend projects including REST APIs, microservices, and AI-powered platforms.
- Developed scalable systems using Django/Flask with PostgreSQL, Redis caching, Celery for async tasks.
- Containerized and deployed applications using Docker (multi-stage builds) and Docker Compose.
- Integrated secure payment gateways (PayPal, Paymob, Stripe) and optimized database performance.

## Internships

### Python & DevOps — Information Technology Institute (ITI)

Jul 2025 - Nov 2025

*5-month Intensive Full-Time Program*

*On-site*

- Hands-on training in cloud-native development, infrastructure automation, and container orchestration.
- Built and deployed applications on AWS EKS with automated CI/CD pipelines and infrastructure as code.
- Core Technologies:** Linux, Docker, Kubernetes (EKS), Jenkins CI/CD, Terraform (IaC), Ansible, Helm, AWS, Prometheus, NGINX, GitOps (ArgoCD).

## Education

### Bachelor's of Computer Science

*Arab Open University*

Sep 2020 - July 2024

*GPA: 3.15/4.0*

- Graduation Project:** Tripey Travel Planner (Grade: A+) — Flutter app with AI-based travel planning using Google Maps API and Flask microservices backend with predictive search and clustering algorithms.

## Featured Projects

### BIGRS - Cloud-Native Platform (🔗)

AWS EKS, Terraform, ArgoCD, Jenkins, Node.js, MySQL, Redis, Kubernetes

- Architected and deployed a production-grade, multi-AZ platform on AWS EKS with high availability.
- Built GitOps workflow with ArgoCD featuring automated image updates and self-healing deployments.
- Implemented CI/CD pipeline using Jenkins for automated Docker builds and ECR integration.
- Provisioned full infrastructure via Terraform (VPC, EKS, RDS, ECR), reducing release time by 85%.

### Banking FinTech API (🔗)

Django, DRF, PostgreSQL, Celery, Redis, RabbitMQ, Docker, NGINX

- Built secure banking API with JWT auth, 2FA, KYC verification, and role-based access control.
- Implemented Celery/Redis async workers for transactions, fraud detection, and scheduled jobs.
- Designed optimized PostgreSQL schema with indexes for high-performance queries.
- Orchestrated 8+ microservices with Docker Compose and implemented real-time fraud alerting.

### NexMediaAI.com - AI SaaS Platform (🌐)

Django, Flask, PostgreSQL, Microservices, REST APIs, Docker, NGINX, CI/CD

- Architected subscription-based video captioning and translation platform using microservices.
- Built Django–Flask hybrid system with REST APIs, service discovery, and inter-service communication.
- Integrated PayPal and Paymob payments with webhook-based subscription billing.
- Deployed containerized services on VPS using Docker, NGINX, and HTTPS with SSL.

### Skypoint - 3-Tier Kubernetes Deployment (🔗)

Kubernetes, ArgoCD, GitOps, PostgreSQL, Kustomize, NGINX Ingress, Django

- Deployed production-ready 3-tier application on Kubernetes using GitOps via ArgoCD.
- Managed multi-replica frontend, backend, and PostgreSQL using the Crunchy Data Operator.
- Configured secure HTTPS traffic with NGINX Ingress, TLS termination, and SSL certificates.
- Applied Kustomize overlays for dev/staging/prod environments with automated self-healing rollbacks.

## Technical Skills

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- **Languages:** Python, JavaScript, SQL, Bash, Java, Dart, HTML/CSS
- **Backend Frameworks:** Django, Django REST Framework (DRF), Flask, FastAPI
- **Databases:** PostgreSQL, MySQL, Redis (Caching), RabbitMQ, Database optimization.
- **DevOps & Cloud:** Docker, Kubernetes (EKS), AWS (EC2, RDS, ECR, S3, VPC), Terraform, Jenkins, ArgoCD.
- **Tools & Practices:** Git, Microservices, Celery, Gunicorn, OpenAPI/Swagger, Unit Testing, CI/CD
- **Payment Integration:** PayPal API, Paymob API, Stripe API.
- **Monitoring & Logging:** Prometheus, Grafana, Loguru.

## Certifications

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- **Red Hat System Administration I (RH124)** — Redhat Academy, 2025
- **Certified Kubernetes Application Developer (CKAD)** — Ongoing
- **AWS Certified Cloud Practitioner** — Ongoing

## Languages

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- **Arabic:** Native | **English:** Upper-Intermediate (B2)