

Rami Adel Shawky

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Profile

Python Backend Engineer with 1+ year of production experience in REST API development, Django-based platforms, and data-intensive applications across SaaS domains. Complements backend work with practical DevOps skills across Docker, Kubernetes, and AWS, covering the full path from development to deployment. CKAD-certified. Currently expanding into FastAPI for high-performance async backend development.

Experience

- Python Backend Engineer**
PoultrySync

Jan 2026 – Present
Hybrid

 - Developed and maintained backend across 7 core modules (Hatchery, Breeders, GrandParents, and others).
 - Extended Django Admin with multi-parameter filtering, cross-module data mining, and structured reporting interfaces.
 - Optimized PostgreSQL queries on reporting views and delivered production hotfixes with zero downtime impact.
 - Collaborated with product managers to deliver new features and built reusable aggregation logic for cross-module reporting.
- Full Stack Developer**
Freelance

Oct 2024 – Jan 2026
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)**
5-month Intensive Full-Time Program

Jul 2025 – Nov 2025
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, Jenkins, Terraform, Ansible, Helm, AWS, Prometheus, NGINX, ArgoCD.

Education

- Bachelor's of Computer Science**
Arab Open University

Sep 2020 – July 2024

 - 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 AWS infrastructure via Terraform (VPC, EKS, RDS, ECR), cutting release cycle time by 85% through full CI/CD automation.
- 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.

Black Cat Store - Multi-Vendor E-commerce Platform (🌐)

Django, DRF, PostgreSQL, Celery, Redis, JWT, Docker

- Developed multi-vendor marketplace with vendor approval, document verification, commission, and tiered subscriptions.
- Designed dynamic pricing engine for property-based additions and quantity-tiered discounts via real-time API.
- Developed comprehensive admin dashboard for vendor oversight, order lifecycle, and live platform analytics.
- Implemented real-time chat with order-specific conversations, file attachments, and multi-channel notifications (email, SMS, push).

Technical Skills

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

Certifications

- **Certified Kubernetes Application Developer (CKAD)** — Linux Foundation, Jan 2026
- **Red Hat System Administration I (RH124)** — Red Hat Academy, 2025
- **AWS Certified Cloud Practitioner** — In Progress

Languages

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