

MOATAZ FAWZY

Backend Engineer

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SUMMARY

Backend Python Engineer with 2+ years of experience building scalable, high-performance systems using Django, FastAPI, and Django REST Framework. Skilled in designing production-grade RESTful APIs, optimizing performance, and implementing clean architecture. Experienced in developing authentication, payment, and real-time features serving thousands of users. Currently contributing to backend solutions at Eram Group and building open-source projects.

TECHNICAL SKILLS

- **Languages:** Python, C
- **Frameworks:** Django, Django REST Framework, FastAPI
- **Databases:** PostgreSQL, MySQL, SQLite, MongoDB
- **Core Concepts:** OOP, Data Structures & Algorithms, Design Patterns, Software Architecture, DB Design
- **Tools:** Git, GitHub, Docker, AWS
- **AI & Integrations:** REST APIs, API Integration, LLMs, Prompt Engineering, Claude

WORK EXPERIENCE

Backend Python Engineer at Eram-Group

Jun 2025 – Present

- Designed and delivered scalable backend systems using Django and FastAPI, supporting 4.5K+ users with improved performance and reliability.
- Built a robust admin panel with role-based access control (RBAC), increasing operational efficiency by 60%.
- Optimized system performance through advanced database query tuning and pagination, reducing response times by 30%.
- Implemented secure authentication and user management using OAuth2, JWT, and OTP-based phone verification with SMS integration.
- Engineered a full-featured booking system with real-time scheduling, achieving ~100ms latency for live session performance.
- Architected a scalable wallet system handling secure transactions (deposits, withdrawals, transfers) with integrated online (Tap, Paymob) and offline payment methods, ensuring data integrity.
- Developed and maintained integrations with ERPNext, Amazon, Noon, and Salla to streamline and automate business operations.
- Applied API rate limiting and performance optimization techniques to ensure system stability under high load.
- Enabled dynamic configuration management using Django Constance, reducing deployment dependency and improving operational flexibility.
- Designed and documented RESTful APIs and implemented multi-channel notification systems (push, email, SMS) to enhance scalability and user engagement.
- Delivered backend solutions across multiple domains, including healthcare, e-commerce, booking, and beverage platforms.
- Implemented localization and multi-language support, improving accessibility and user experience across regions.

Python Expert | Upwork

Mar 2022 – 2024

- Managed full project life cycles, collaborating with clients on platforms like Upwork, ensuring successful delivery of projects within deadlines.
- Built and integrated scalable APIs with Django Rest Framework (DRF) to ensure seamless front-end and back-end communication.

PROJECTS

Dars Platform

- Developed backend features for a live tutoring platform, implementing scalable booking and real-time scheduling systems for one-on-one sessions.
- **Live:** <https://www.dars.online>

E-commerce Backend System (Weem)

- Built scalable RESTful APIs for a production e-commerce platform, implementing secure payments, OTP-based authentication, and core features including cart, order management, and notifications.
- **Live:** <https://www.weem.sa>

1K Coffee Ordering System

- Engineered an ordering system with ERPNext integration, including customer rewards and ranking features to enhance user engagement and operations.
- **Live:** <https://www.1kcoffee.com>

Sukoon Application

- Built backend components for a healthcare platform, implementing booking, payments, subscriptions, wallet transactions, and multi-channel notifications. Applied Domain-Driven Design (DDD) and full-text search to improve scalability and user experience..
- **Live:** <https://www.sukoon-app.com>

Django Layered Starter

- Built a scalable Django starter template using layered architecture to enforce clean code structure and maintainability.
- **PyPI:** <https://pypi.org/project/django-layered-start>

Django GCC Phone Numbers Package

- Developed a reusable Django package for validating and standardizing GCC phone numbers, improving data consistency across applications.
- **PyPI:** <https://pypi.org/project/Django-GCC-PhoneNumbers>

See more projects on my portfolio: <https://mezo-dev.github.io/moataz.com>

EDUCATION & CERTIFICATIONS

Bachelor of Information system • Graduation Year – 2024

2020 – 2024

El-Shrouk Academy

- Django – Coursera (Meta) [Verify](#)
- Rest-Framework API – Coursera (Meta) [Verify](#)
- Promoting Engineering (Google) [Verify](#)

LANGUAGES

- Arabic (Native)
- English (Professional)

Technical Content & Community

- YouTube Content Creator (Backend Engineering)
- <https://www.youtube.com/@bitwizee>