

Hussein Mukhtar

Backend Software Engineer — Python · Django · Fintech Infrastructure

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Backend Software Engineer with 2+ years of production experience building high-performance Python/Django services, payment-adjacent APIs, and cloud-deployed infrastructure. Proven record of delivering latency-sensitive systems (<350 ms), integrating third-party payment gateways, and migrating legacy codebases. Eager to contribute to fintech infrastructure at scale — bringing deep Django expertise, async task management with Celery/Redis, and a strong security mindset to high-reliability payment platforms.

EXPERIENCE

Software Team Lead

Jun 2025 – Jun 2026

National Company for Roads · Cairo

- Maintained and extended core backend services built on Django & Laravel, supporting mission-critical road-management operations.
- Optimized SQL Server queries and indexing strategies, reducing average API response time by **35%**.
- Introduced a **Redis-based caching** layer for high-read endpoints, cutting database load on peak-traffic routes by **~40%**.

Software Engineer

Aug 2024 – Aug 2025

Scada Innovations · Cairo

- Architected a scalable, secure web application for real-time SCADA system monitoring and control, sustaining system latency **<350 ms** under concurrent load.
- Applied Django + HTMX to build high-performance, server-side-rendered dashboards, improving system throughput by **20%** while maintaining multi-cloud portability (AWS & Azure).
- Designed RESTful APIs consumed by web clients and embedded field devices, enforcing JWT authentication, role-based access, and full OpenAPI 3.0 documentation.
- Configured **CI/CD** pipelines (GitHub Actions) and containerized services with Docker, reducing deployment time from hours to minutes.

Backend Web Developer (Internship)

Jul 2023 – Sep 2023

Marakez D5 · Cairo

- Extended and maintained multiple Django/Flask applications, shipping 3 new feature modules within a cross-functional team under Agile sprints.
- Optimised database queries and implemented server-side caching, contributing to measurable improvements in page load times and SEO scores.

SKILLS & TECHNOLOGIES

Languages	Python, PHP, C/C++, Rust, SQL, JavaScript
Frameworks	Django, FastAPI, Laravel, HTMX, Django REST Framework (DRF)
Databases	PostgreSQL, MySQL, SQL Server, SQLite, Redis
Async / Queue	Celery, Redis Queue, Django-q2
Infrastructure	Docker, Linux (Arch / LFS), AWS (EC2, S3, RDS), Azure, CI/CD (GitHub Actions)
Payments / API	Stripe SDK, Paymob Accept API, REST API design, Webhook handling, JWT Auth, OpenAPI 3.0

PROJECTS

PayLink — Payment Gateway Integration Service

Mar 2026

Personal Project · Django · Celery · Redis · Paymob Accept API

- Built a Django service integrating with the **Paymob Accept API** to manage the full payment lifecycle: order registration, payment-key generation, iframe rendering, and real-time webhook callbacks for transaction confirmation.
- Used **Celery + Redis** for async processing of payment events and automated retry logic on failed webhooks, achieving zero missed callbacks in testing.
- Implemented idempotent transaction records and atomic DB writes to prevent double-charges in concurrent payment flows — a critical requirement for fintech reliability.
- Exposed a REST API (DRF + OpenAPI 3.0 docs) with rate limiting and HMAC signature verification on all incoming webhooks.

RateWatch — Real-Time Financial Data API

Apr 2026

Personal Project · FastAPI · Redis · PostgreSQL

- Designed and deployed a **FastAPI** microservice aggregating currency exchange rates from multiple sources, serving them via a versioned REST API.
- Applied Redis caching with configurable TTLs per currency pair, reducing upstream API calls by **85%** and delivering p95 response times under **forty ms**.
- Stored historical rate snapshots in PostgreSQL with partitioned tables by date, enabling efficient time-series queries for trend analysis endpoints.

GameTRC — Game Library Tracker (Open Source)

Feb 2026

Desktop App · Tauri · Rust · SQLite · Vanilla JS

- Architected a cross-platform desktop application using **Tauri + Rust** providing a native, high-performance interface for managing extensive game libraries.
- Integrated a local SQLite database with an optimised schema for rich metadata: franchise sequencing, progress tracking, and multi-genre filtering.
- Delivered a statistics dashboard visualising completion rates and platform distributions via a dependency-free vanilla JS/CSS UI.

Seeker of Light — Learning Management Backend

Sep 2025

Django Learning Platform · Django 6.0 · PostgreSQL · JWT · DRF

- Created a structured LMS backend with level-based unlock thresholds, progress-tracking metrics, and personalised lesson recommendations.
- Integrated secure JWT authentication with email verification and full OpenAPI 3.0 documentation via drf-spectacular.
- Built a RESTful API supporting bookmarking systems and real-time progress summaries across multiple content categories.

Status — Server Monitoring System (Open-Source Contribution)

Mar 2025

Django · REST API · CI/CD · Flutter Collaboration

- Led architectural migration of a legacy monitoring tool to Django, implementing remote server health-tracking APIs consumed by Flutter mobile clients.
- Designed versioned RESTful endpoints for iOS/Android; collaborated via GitHub with Flutter developers using feature-branch workflows and pull-request reviews.
- Implemented CI/CD pipelines (GitHub Actions) to automate test suites and containerised deployments, reducing manual release effort by **~70%**.

Grayson Town car — Private Transportation Booking Platform

Jun 2025

Freelance · Django · HTMX · Azure

- Architected a responsive booking platform featuring a custom Instant Quote engine with dynamic fare logic (Airport, Disney, Port Canaveral routes).
- Built a multi-step reservation system handling vehicle selection, add-ons (car seats, grocery stops), and automated customer email notifications.

Additional Freelance Work

2024 – 2025

Wedda Marketing Agency · Al-Awal Medical Factory · Turjman CMS

- **Wedda:** High-performance Django corporate portal with strict HTTP caching for sub-second load times.
- **Al-Awal:** Secure B2B catalogue using HTMX for SPA-like responsiveness without a heavy JS framework.
- **Turjman:** Full-featured CMS with RBAC, JWT auth, and commenting system; deployed on Azure with DNS and security group configuration.

EDUCATION

BS in Computer Science

Suez University · 2020 – 2024 · Suez · Relevant coursework: Software Engineering, Cloud Computing, Database Management, Web Development