

HUSSEIN MUKHTAR

BACKEND SOFTWARE ENGINEER

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Objective

Backend Software Engineer with deep expertise in **Python (Django/FastAPI)** and **Linux Systems**. Experienced in building high-performance applications (latency < 350ms) and migrating legacy codebases. Passionate about System Administration, Rust/C++, and scalable cloud infrastructure.

Skills & abilities

- **Languages:** Python, PHP, C/C++, Rust, SQL, JavaScript.
- **Frameworks:** Django, FastAPI, Laravel, HTMX.
- **Infrastructure:** Docker, Linux (Arch/LFS), AWS, Azure, CI/CD.

NATIONAL COMPANY FOR ROADS.

Software Engineer | June 2025 – Present.

- Maintained and optimized core Backend services using **Django & Laravel**.
- Managed legacy Android (Java) integrations and optimized SQL Server queries, improving API performance by **35%**.

SCADA INNOVATIONS.

Software Engineer | August 2024 – August 2025.

- Developed a scalable and secure web application designed for SCADA system monitoring and control, while keeping system latency < 350ms.
- Utilized **Django** with **HTMX** to build high-performance solutions, ensuring scalability across multiple cloud providers.

MARAKEZ D5.

Backend web developer (Internship) | July 2023 – September 2023.

- Expand and support multiple **Django/Flask** applications.
- Collaborate with cross-functional teams to optimize website performance, user experience, and SEO.

SUEZ UNIVERSITY

Suez | BS in Computer Science | 2020 - 2024

earned a 3.1 GPA and completed relevant coursework in software engineering, Cloud, database management, and web development.

Experience

Education

GRAYSON TOWNCAR.

Joint Venture | June 2025 | [Live Link](#)

- Co-developed a responsive booking platform for a private transportation service, featuring a custom "Instant Quote" engine with dynamic fare calculation based on complex route logic (Airport, Disney, Port Canaveral).
- Implemented a secure, multi-step reservation system that manages vehicle choice, add-on management (car seats, grocery stops), and automated customer notifications.

ANUBIS.

Graduation Project | September 2024

- Architected a custom Linux distribution (LFS) to demystify kernel operations for students.
- Integrated an embedded AI assistant to provide real-time CLI command explanations and error debugging.
- Optimized kernel configurations for stability, achieving a lightweight footprint suitable for older hardware.

GAMETRC

Game Library Tracking (FOSS) | February 2026 | [Link To GitHub](#)

- Architected a cross-platform desktop application using Tauri and Rust to provide a high-performance, native interface for managing extensive video game libraries.
- Integrated a local SQLite database with an optimized schema to handle rich metadata, including franchise sequencing, progress tracking, and multi-genre filtering.
- Developed a comprehensive statistics dashboard that visualizes gaming habits, completion rates, and platform distributions through a responsive, dependency-free vanilla JS/CSS UI.

SEEKER OF LIGHT

Django Learning Platform | September 2025 | [Link To GitHub](#)

- Architected a structured learning management backend using Django 6.0 and PostgreSQL, featuring level-based unlock thresholds and progress tracking metrics.
- Integrated a secure JWT-based authentication system with email verification and full OpenAPI 3.0 documentation via drf-spectacular for seamless frontend consumption.
- Developed a RESTful API supporting personalized lesson recommendations, bookmarking systems, and real-time progress summaries across multiple content categories.

STATUS.

Server Monitoring System (Open-Source Contribution) | March 2025 | [Link to GitHub](#)

- Led the architectural migration of a legacy monitoring tool to **Django**, implementing remote server health tracking APIs.
- Developed RESTful **API** for connecting with an Android and/or iOS app.
- Collaborated with **Flutter** developers to create the app Using Version Control (GitHub).
- Implemented **CI/CD** pipelines to automate testing and deployment.

WEDDA MARKETING AGENCY.

Freelance Job | January 2025 | Version 2.0 | [Live Link](#)

- Engineered a high-performance corporate portal using **Django**, implementing strict caching strategies for sub-second load times.
- Implemented Django's best practices to allow the user full editing capabilities.

AL-AWAL MEDICAL FACTORY.

Freelance Job | December 2024 | [Live Link](#)

- Delivered a secure B2B catalogue platform, utilizing **HTMX** for dynamic content loading without full page refreshes.
- *Leveraged HTMX to achieve single-page application (SPA) responsiveness using server-side rendering, eliminating the need for a heavy JS framework.*

TURJMAN.

Freelance Job | June 2024

- Built a full-featured Content Management System (CMS) featuring RBAC, User Auth, and Commenting systems.
- Implemented **Role-Based Access Control (RBAC)** to manage permissions for authors, editors, and regular users.
- Deployed and configured the application on a **Microsoft Azure** instance, managing DNS and security groups.
- Served as a graduation project for a Media faculty team.