

Mohamed Emad

Python Developer

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SUMMARY

Backend Developer with 2+ years of experience in Django/Python. Skilled in building scalable apps with PostgreSQL & MySQL. Delivered multiple systems in E-learning, E-commerce, logistics, and healthcare. Passionate about clean code and open-source.

TECHNICAL SKILLS

Programming Languages & Frameworks: Python, Django, Django REST, FastAPI, Flask, Celery, Redis

Database Technologies: PostgreSQL, MySQL, SQLite, MongoDB, Redis (as cache store)

Web & API Technologies: RESTful APIs, Swagger Documentation, JWT Authentication, WebSocket Communication

Server & Containerization: Linux, Nginx, Gunicorn, Docker, Docker Compose

DevOps & CI/CD: Git, GitHub Actions, Docker-based deployments

EXPERIENCE

Software Engineer

Dine Norder, Qatar Mar 2025 - Present

Remote

- Developed and maintained server-side logic, database architecture, and APIs using Python (Django/FastAPI)
- Built and delivered three core applications: a customer-facing app, a restaurant management app, and an admin dashboard for Dine Norder.
- Designed scalable and secure database models following industry best practices
- Implemented automated testing and CI/CD pipelines for deployment readiness
- Optimized backend performance through code efficiency and query optimization
- Conducted code reviews and troubleshooting to maintain quality standards
- Technologies: Python, Django, DigitalOcean, PostgreSQL, REST APIs, CI/CD

Back-end Developer

Debo Web, Egypt Aug 2024 – Feb 2025

on Site

- Collaborated effectively with frontend and Flutter mobile teams to ensure seamless integration, while maintaining clear and structured API documentation using Swagger.
- Contributed to the development of Delivendor, a full-featured delivery system, from scratch to final deployment for a UAE-based company, ensuring production readiness and scalability.
- Worked in a Linux environment and participated in deploying APIs and dashboards using Git and DevOps tools.
- Designed and maintained databases according to best practices.
- Deployed APIs and dashboards, and authored comprehensive API documentation using Swagger.
- Technologies used: Python, Django, Django REST, MySQL, SQLite, Git.

Back-end Developer

Lox Company Intern, Saudi Arabia Jan 2023 – Aug 2024

Remote

- Streamlined the process of handling citizen complaints by developing an innovative Citizen's Complaints Automation System used by hundreds of thousands for a major government entity.
- Built a dashboard to manage the system and monitor AI models accuracy using Python and Django.
- Facilitated seamless integration of AI models between different government entities by developing RESTful APIs.
- Ensured cohesive system functionality by collaborating with AI and front-end engineers.

- Contributed to editing frontend templates using HTML, CSS, JavaScript
- Maintained AI model accuracy by scheduling tasks to retrain models using Django-q and Redis.
- Resolved a critical memory error issue during model retraining by managing over a million rows of data using Python Generators.
- Technologies used: HTML, CSS, JavaScript, Python, Django, Django REST, PostgreSQL, Redis, Django-q, Docker, PyTorch.

PROJECTS

Tawseela System Python, Django, Clean Code, My SQL	Jan 2025 – Apr 2025
<ul style="list-style-type: none">Built a reliable and scalable delivery management system tailored for multi-purpose logistics (food, pharmacy, and custom orders).Designed optimized MySQL database schemas with indexing to handle growing data and large-scale order processing.Integrated branch-based product management and a catalog-style pharmacy section, inspired by platforms like Vezeta.Delivered a seamless admin dashboard for managing users, delivery requests, order flows, and analytics.	
E-Leering System (Qasr El-Ainy , Faculty of Dentistry)	Sep 2024 – Jan 2025
<ul style="list-style-type: none">Designed and developed a comprehensive e-learning platform tailored for Dentistry students at Qasr El-AinyEnabled live streaming of lectures with automatic recording and on-demand replay functionality.Built a dynamic admin and instructor dashboard for performance tracking, content management, and real-time student .	
Hospital Management System (Graduation Project)	Apr 2024 – Jun 2024
<ul style="list-style-type: none">Integrated data analytics for operational insights and patient outcome trackingBuilt secure role-based access for hospital staff, ensuring sensitive data privacy.Designed and developed a comprehensive hospital management using Django	
E_commerce System Python, Django, OOP	Jan 2024 – Apr 2024
<ul style="list-style-type: none">Developed a scalable and multi-branch E-commerce system, currently live and serving multiple active branches.Implemented role-based access control to ensure secure management for admins and branch managers.Built a dynamic category and filtering system to enhance the user shopping experience.Integrated a product inventory module with automatic stock level updates and low-stock alerts.Applied clean architecture principles and reusable components to support future scalability and feature expansion.	

LANGUAGE

Arabic : Native language	English : B(2)
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EDUCATION

October 6 University Bachelor of Computer Science and Information Systems Grade: Very Good Graduation Project: Comprehensive Medical Mobile Application Graduation Project Grade: Excellent	Egypt, 6 October Aug 2020 – May 2024
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SKILLS

<ul style="list-style-type: none">Skills Proficient in RESTUI APIsStrong database managementKnowledge of design patternsExperience with API documentationProblem-Solving	<ul style="list-style-type: none">API Design and DevelopmentObject-Oriented ProgrammingTeam CollaborationSelf MotivationMultitasking
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