

ABDALLA SHEABA

Backend Software Engineer | Python / Django REST Framework

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SUMMARY

Backend-focused Software Engineering student with hands-on experience building scalable applications using Python, Django REST Framework, PostgreSQL, and Docker. Built and deployed an end-to-end e-commerce search platform while continuously strengthening core CS, Python, and SQL fundamentals.

TECHNICAL SKILLS

- Languages:** Python, TypeScript, SQL
- Backend & APIs:** Django, Django REST Framework, drf-spectacular (OpenAPI/Swagger), OAuth2 (Google, Facebook)
- Databases & Search:** PostgreSQL, MySQL, Meilisearch
- Data Extraction:** Scrapy, Playwright (JS-rendered pages, infinite scroll, large-scale crawling)
- Frontend:** React, Next.js, TypeScript, Bootstrap
- DevOps & Tools:** Docker, Docker Compose (multi-container architectures), Git/GitHub, Postman, VS Code Dev Containers

EXPERIENCE

MarketLens | [Personal Project — Full-Stack E-Commerce Search Platform](#)

- Architecture:** designed a multi-service platform that aggregates, indexes, and compares live product offers across multiple e-commerce sites, running as a containerized system (Scrapy, Django, Next.js, PostgreSQL, Meilisearch) via Docker Compose.
- Data pipeline:** built and maintained production Scrapy + Playwright crawlers handling JavaScript-rendered pages and infinite scroll; diagnosed and fixed a CSS-selector ordering bug that was silently storing placeholder images instead of real product images, then wrote a backfill spider to repair affected records.
- API & database:** modeled a relational schema in PostgreSQL and exposed it through a Django REST Framework API consumed by the frontend.
- Search experience:** implemented instant, typo-tolerant search with Meilisearch and react-instantsearch on a Next.js 14 / TypeScript frontend; resolved a React 19 / Next.js 14 dependency conflict causing prerender crashes, an infinite-loop bug in a useEffect search hook, and pagination/URL state-sync issues.

Daar Albnaa | [Personal Project — Construction Company Platform \(Backend\)](#)

- API:** built the backend with Django REST Framework and authored interactive Swagger/OpenAPI documentation using drf-spectacular.
- Auth:** implemented Google OAuth2 login end-to-end and integrated Facebook Login via the JavaScript SDK; designed the React/TypeScript login and registration frontend.

Freelance Python Developer | [Upwork \(Remote\)](#)

Aug 2025

- Delivered a fixed-scope contract testing and validating Python simulation code for a client; debugged file-handling and data-processing logic and confirmed correctness against expected outputs.

EDUCATION

B.Sc. in Software Engineering (in progress) | [Arab Open University, Egypt](#)

Oct 2025 – Expected 2028

CERTIFICATIONS

- Meta Backend Developer Professional Certificate — Coursera / Meta (Dec 2024)

LANGUAGES

Arabic: Native | **English:** Fluent

