# ABDALLA SHEABA

## BACKEND SOFTWARE ENGINEER | PYTHON & DJANGO REST FRAMEWORK

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## PROFESSIONAL SUMMARY

Backend-focused Software Engineering student with hands-on experience building web applications and REST APIs using Python, Django REST Framework, and PostgreSQL. Developed an end-to-end e-commerce product search platform integrating web crawlers, a relational database, and Meilisearch. Experienced with Docker, Docker Compose, and Linux, with additional working knowledge of React and Next.js.

## TECHNICAL SKILLS

**Programming:** Python, SQL, JavaScript, TypeScript
**Backend & APIs:** Django, Django REST Framework (DRF), Django ORM, RESTful API Development, API Integration, OAuth 2.0, JWT Authentication, OpenAPI, Swagger
**Databases & Search:** PostgreSQL, MySQL, Relational Database Design, Database Modeling, Meilisearch, Search Indexing, Full-Text Search
**Web Scraping & Data Extraction:** Scrapy, Playwright, Scrapy-Playwright, Web Scraping, Web Crawling, Browser Automation, Data Extraction, Data Pipelines
**DevOps & Environment:** Linux, Docker, Docker Compose, Containerization, Multi-Container Applications
**Additional Frontend Knowledge:** React, Next.js, TypeScript, Bootstrap
**Foundational Knowledge:** Java (Basics), C++ (Basics), Object-Oriented Programming (OOP), Data Structures & Algorithms
**AI-Assisted Development:** AI-Assisted Software Development, ChatGPT, Claude, GitHub Copilot
**Development Tools:** Git, GitHub, Postman, Visual Studio Code

## PROJECTS & EXPERIENCE

### MarketLens | Personal Project

*Full-Stack E-Commerce Search Platform*

- Designed a multi-service platform that aggregates, indexes, and compares product offers across multiple e-commerce websites, using Scrapy, Playwright, Django, Next.js, PostgreSQL, and Meilisearch orchestrated with Docker Compose.
- Built and maintained Scrapy and Playwright crawlers for JavaScript-rendered pages and infinite scrolling; diagnosed a CSS-selector ordering issue affecting product images and created a backfill spider to repair existing records.
- Designed relational data models in PostgreSQL and exposed product data through a Django REST Framework API consumed by the frontend.
- Integrated Meilisearch to provide fast, typo-tolerant product search, and implemented the search experience with React InstantSearch on a Next.js and TypeScript frontend.
- Troubleshot frontend integration issues, including dependency conflicts, React hook behavior, and pagination/URL state synchronization.

### Daar Albnaa | Personal Project

*Construction Company Platform — Backend*

- Built backend functionality and REST APIs using Django REST Framework.
- Created interactive API documentation with OpenAPI/Swagger using drf-spectacular.
- Implemented Google OAuth 2.0 login and integrated Facebook Login using the JavaScript SDK; contributed to the React/TypeScript authentication interface.

### Freelance Python Developer | Upwork (Remote)

*Aug 2025*

- Completed a fixed-scope contract testing and validating Python simulation code; debugged file-handling and data-processing logic and verified results 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