Shahda Mohamed

Backend Developer

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Portfolio
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SUMMARY

I'm a Computer Science student with a strong focus on back-end development. I have hands-on experience with Python and database design, and I am passionate about building efficient, scalable back-end systems. My goal is to continue developing my skills in back-end technologies and contribute to meaningful projects in the tech industry.

SKILLS

PROGRAMMING

- 3+ years **C++**
- 1+ years **Python**
- **JavaScript** | **Dart** | **PHP**

WEB DEVELOPMENT

- 1+ years **Django** • **Django REST Framework**
- 1+ years **HTML** • **CSS**

DATABASES

- 1+ years **MySQL** • **SQLite**

VERSION CONTROL

- **Git** • **GitHub**

WEB TECHNOLOGIES

- **HTTP/HTTPS**
- **RESTful APIs**

DEVELOPMENT TOOLS

- Familiar with various debugging, testing, and build tools.

SOFT AND COMMUNICATION SKILLS

- Strong communication skills.
- Team collaboration and teamwork.
- Problem-solving and critical thinking.
- Time management and organization.
- Adaptability and continuous learning.

EXPERIENCE

- **Backend Head, GDG Benha National University**   **October 2025 – Present**
  Overseeing the backend track, leading the technical team, and ensuring high-quality content delivery. Responsible for planning sessions, coordinating with other team leads, and guiding members through advanced backend development practices.
- **Backend Technician, GDG Benha National University**   **October 2024 – July 2025**
  Led and mentored participants in the backend track, delivering technical sessions and providing continuous guidance on backend development. Supported team progress, encouraged a collaborative learning environment, and ensured clear understanding of backend concepts and best practices.
- **Trainee July 2025 at Crédit Agricole Egypt**
  One-month training program in banking operations and customer service. Gained practical exposure to financial processes and retail banking environment.
- **Trainee August 2025 at Faisal Islamic Bank of Egypt**
  Completed hands-on training involving exposure to banking operations, process workflows, and real-world financial systems. Gained insight into professional work environments and improved communication and technical skills.
- Engineered robust server-side applications using **Django** and **Python**, with a strong focus on backend logic optimization and performance tuning.
- Designed, implemented, and optimized **MySQL** databases for high performance, reliability, and scalability in large-scale application contexts.
- Developed and integrated **RESTful APIs** with **Django REST Framework** to enable efficient and secure data exchange between client and server systems.
- Maintained version control and streamlined team collaboration using **Git** and **GitHub**, ensuring consistent and well-organized codebase management.
- Created and deployed a personal **GitHub Page** to showcase projects and technical documentation, enhancing professional presence and accessibility.
- Containerized backend applications using **Docker**
- Applied **Object-Oriented Programming (OOP)** principles to produce modular, maintainable, and reusable backend code components.

PROJECTS

TO-DO LIST WEB APP | A full-stack web application designed for managing daily tasks.

- Developed a full-stack To-Do List web application using **Django**, implementing features like user authentication, task creation, updating, and deletion for a seamless user experience.
- Designed a structured database with **Django Models** to manage users and tasks efficiently, ensuring secure login and personalized task management for each user.
- Integrated front-end components using **HTML** and **CSS** to create a user-friendly interface, resulting in improved user engagement.
- Implemented role-based access control to ensure data privacy and security for each user's task list.
- Deployed the application on **Heroku** for easy accessibility and management.

CINEMA TICKETS RESERVATION API | An API to Book tickets for cinema

- A RESTful Cinema Reservation System using Django REST Framework, enabling users to browse movies, select showtimes, and reserve tickets through secure API endpoints.
- Implemented JWT authentication for secure user registration and login, and structured the database models to manage movies, showtimes, reservations, and users effectively.

EVENT BOOKING WEB API | A web application to Book tickets for events

- This is a Django REST Framework-based API for an Event Booking System. Users can browse available events, view event details, register accounts, and book events. The system handles event creation, user registrations, and secure bookings with role-based access

- Implemented JWT authentication for secure user registration and login, and structured the database models to manage Events, booking Events, and users effectively.

STORE MANAGEMENT SYSTEM DATABASE | A database system using MySQL
- The Store Management System Database is designed to manage an online store's users, products, categories, shopping cart, orders, and reviews efficiently. This relational database provides a structured and scalable approach to handling e-commerce operations, from product management to customer transactions.

PORTFOLIO | A Website to showcase me.
- A responsive and interactive website built to showcase my skills, projects, and background as a backend developer. Developed using **HTML, CSS, and JavaScript**, and deployed using **GitHub Pages**. Includes dynamic sections such as About Me, Projects, Skills, and Contact. Continuously maintained and updated with the latest projects and achievements

PING PONG GAME | Game bulit using Python.
- A classic Ping Pong game developed using Python and the Turtle library. This game allows two players to compete in an exciting ping pong match!

EDUCATION

Bachelor of Science in Computer Science
Benha National University — Egypt
Expected Graduation: 2026

Relevant Coursework:

- Data Structures and Algorithms

- Database Systems

- Operating Systems

- Object-Oriented Programming

- Software Engineering

- Computer Networks

CERTIFICATES

- Introduction to databases for back-end development from **Meta**

- HCIA-Datacom from **Huawei**

- Python programming Basics from **Information Technology Institute (ITI)**