

Shahda Mohamed

Backend Developer

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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.

EXPERIENCE

- **Backend Technician** at GDG, Benha National University Start: Oct 2023
- Developed server-side applications using **Django** and **Python**, focusing on optimizing backend performance and logic.
- Designed and optimized databases using **MySQL**, ensuring fast, reliable, and scalable data management for large-scale applications.
- Created and integrated **RESTful APIs** using **Django REST Framework**, enabling seamless data exchange between client and server.
- Utilized **Git** and **GitHub** for version control, fostering effective collaboration and maintaining a clean and organized code-base.
- Optimized complex database queries, reducing response times by 15% and improving overall application performance.
- Implemented **Object-Oriented Programming (OOP)** principles to develop modular, maintainable, and reusable backend code.

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 WEB APP | A WEB APPLICATION 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.

EDUCATION

BENHA NATIONAL UNIVERSITY

BACHELOR OF COMPUTER SCIENCE

Expected Graduation: 2026 | Cum. GPA: 3.01 / 4.0

SKILLS

PROGRAMMING

- 3+ years C++
- 1+ years Python
- JavaScript

WEB DEVELOPMENT

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

DATABASES

- 1+ years MySQL • SQLite

VERSION CONTROL

- Git • GitHub

WEB TECHNOLOGIES

- RESTful APIs • HTTP/HTTPS

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.

COURSES

HCIA-Datcom

Software Project Management

Software Requirements Analysis

Operating Systems I

Calculus I-IV

Linear Algebra

Probability

Physics

Electronics

Logic Design

Computer Architecture

Computer Network Fundamentals

Discrete Mathematics