

# Shahda Mohamed

## Backend Developer

shahdamohamedabotalb@gmail.com

01508319779

Website

Github: shahdamohamed | LinkedIn: shahdamohamed

## 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, Oct 2023 – Present**

Led and mentored participants in the backend track, delivering technical sessions and providing continuous guidance on backend development. Supervised and monitored team progress, facilitating a collaborative learning environment and ensuring comprehensive understanding of backend concepts and best practices.

- 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.
- Optimized complex database queries, achieving a 15% reduction in response times and enhancing overall system performance.
- 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 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-Datacom

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