# Mostafa Osama

Back-end Developer
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**Linkedin** | **HackerRank** | **GitHub**

## Education

**Menofia University** — Egypt
AI Student — 2022 - 2026
*GPA: 3.14*

## Skills

| | |
|---|---|
| Programming Languages: | Python, java, C#, HTML, CSS |
| Libraries/Frameworks: | Spring Boot, scikit-learn, TKinter, Matplotlib |
| Tools / Platforms: | VS code, intelliJ, Jupyter, linux, Git, APIs |
| Databases: | MySQL, SQL |

## Projects / Open-Source

**EduFlow** | **Link** *Java Spring Boot , Spring Security ,MySQL ,H2 Database ,RESTful APIs*

EduFlow is a Spring Boot-based course management platform that allows users to register, manage roles (Student, Instructor, Admin), create and enroll in courses, and track enrollments. It features secure authentication, role-based access control, and full CRUD operations for users, courses, roles, and enrollments. The system is thoroughly tested with 100 test cases50 manual and 50 automated using JUnit

**E-commerce Application** | **Link** *Java Spring Boot , Spring Security ,MySQL ,H2 Database ,RESTful APIs*

This project is a comprehensive eCommerce platform built with Java Spring Boot, designed to handle the end-to-end process of online shopping, including product management, user management, shopping cart and order processing

**Driver Drowsiness Detection** | **Link** *Flask , TensorFlow , Pillow (PIL), NumPy , OpenCV, Matplotlib , Joblib , RESTful APIs , HTML , CSS , JavaScript*

This project is a Flask-based web application for detecting driver drowsiness using a custom-trained deep learning model. The application allows users to upload images, preprocess them, and receive predictions on whether the driver is drowsy or not.
Features
Image Upload and Preprocessing: Users can upload images, which are then preprocessed (converted to grayscale and resized) for model prediction.
Model Prediction: Utilizes a custom-trained TensorFlow model to predict driver drowsiness.
Image Serving: The application can serve the original and processed images.
Web Interface: Includes HTML templates ,CSS , javaScript for user interaction.

**web-based Age Calculator application** | **Link** *HTML , CSS , JavaScript*

web-based Age Calculator application using JavaScript. This project demonstrates how to leverage JavaScript's built-in date and time functions to calculate users' ages based on their submitted date of birth. The application provides an intuitive interface, making it simple for users to determine their exact age with just a few clicks.

## Certifications

- Certified Spring Boot Developer - **Udemy**