Charbel Khabbaz

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Profile

I am a senior computer engineering student at LAU with a strong passion for mathematics, physics, and programming. I take great interest in addressing complex problems and exploring the fundamental principles that govern our world. Currently, I am pursuing a specialization in data analytics and artificial intelligence, with the aspiration of contributing to advancements in this transformative field. Throughout my academic journey, I remain committed to expanding my knowledge, refining my skills, and making meaningful contributions to the ever-evolving domains of science and technology.

Skills

Programming Languages:
Java, Python (OpenCV, Pandas, NumPy, Matplotlib, Pillow), PHP, SQL, Git/GitHub

Web Development:
 JavaScript, HTML, CSS, SCSS

Languages:
 Arabic | English | French

Education

BE - Computer Engineering, Lebanese American University 2022 – present
CGPA: 3.86/4 , Honor's Program, Dean's Distinction List
Clubs: IEEE Artificial Intelligence, Google Developer Student

Lebanese Baccalaureate - General Science, Institut Père Michel Khalifé 2008 – 2022
Grade: 18.10/20 average , Rank: 1

Projects

Python-Powered Vision Suite
A comprehensive project showcasing diverse computer vision applications using Python and its libraries (OpenCV, Pandas, NumPy, Matplotlib):
- **Color Recognition**: Identifies dominant colors in images using color space transformations.
- **Motion Detection**: Tracks movement in videos via frame differencing and contour analysis.
- **Vehicle Counting**: Detects and counts vehicles in video feed, aiding traffic analysis.
- **Face Detection**: Recognizes human faces using pre-trained classifiers.
- **Text Recognition**: Extracts text from images, enabling optical character recognition applications.

These components demonstrate Python's versatility in addressing real-world computer vision challenges.

Barbershop Website Application
Developed a user-friendly website with local database integration using HTML, CSS, SQL, JavaScript and PHP.

Guest House booking Website Application
- Gained expertise in client-server communication by integrating email APIs for seamless data exchange, ensuring efficient and reliable functionality between the frontend and backend.
- Gained expertise in HTML, CSS, JavaScript, SQL, and PHP to seamlessly connect the frontend with the backend. Developed a user-friendly website with admin management, enabling efficient handling of guesthouse details, bookings, and facilities.