

SOUSANNAH ABDALLA

AI ENGINEER | FULL STACK WEB DEVELOPER

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EDUCATION

Bachelor of Engineering in Artificial Intelligence Oct 2021 - Jun 2026 (Expected)
Alamein International University, Matrouh, Egypt **CGPA: 3.85/4.0**

- **Relevant Courses:** Data Structures, Algorithms, Optimization Techniques, Machine Learning, Neural Networks, Image Processing, Natural Language Processing and Database

WORK EXPERIENCE

React Developer Intern, Digital Egypt Pioneers Initiative (DEPI) Apr 2024 - Present
Alexandria, Egypt (Hybrid)

- Completed web development tasks using React.
- Developed projects as part of the MERN stack.

Intern , Bioengineering (Dept) - J.B. Speed School of Engineering Sep 2023 - Nov 2023
University of Louisville, Louisville, KY, USA (Remote)

- Collaborated on a capstone project for early AMD assessment using AI tools.
- Developed non-invasive technology for AMD grading (pending publication).

Internship Trainee, Louisville Automation & Robotic Research Institute (LARRI) July 2023 - Sep 2023
University of Louisville, Louisville, KY, USA (On-site)

- Developed real-time hand gesture recognition techniques using OpenCV and YOLO.
- Connected gesture recognition to AirSim and controlled a DJI Tello drone.
- Authored a research paper comparing gesture recognition methods (pending publication).

EXTRACURRICULAR

Couch at ICPC Club AIU, Alamein International University, Egypt 2022 - 2024
Help to teach teams problem-solving in C++ to participate in the ECPC

Volunteer at scouts of Fairhaven school, Egypt 2017-2020
provided assistance to people with special needs

PROJECTS

Human-Mimicking Robot: Robot Control via Pose Estimation Fall 2023
Engineered a system for seamless robot control utilizing advanced pose estimation

Age-Related Macular Degeneration (AMD) Detection Fall 2023
Contributed to the development of a non-invasive technology for early assessment and grading of AMD using advanced AI tools.

Drone Navigation via Hand Gestures System Summer 2023
Designed a groundbreaking drone control framework, allowing effortless maneuvering with hand gestures in six spatial directions.

SKILLS

Technical Skills:

- **Proficient in** Python, Java, C++, TensorFlow, OpenCV, Machine Learning (ML), Deep Learning (DL), NLP (Natural Language Processing), Computer Vision, and Neural Networks (NN).
- **Good Command in** PyTorch, HTML/CSS, JavaScript, React, NodeJs, Express, MongoDB, Django, Git

Languages: Arabic (Native), English (Fluent, B2 Level)