



MOAMEN ZAHER

JUNIOR RESEARCHER

PROFILE

Master's holder specialized in Human-Computer Interaction (HCI) with several published research papers in both journals and conferences. I'm also an experienced Teaching Assistant with 4 years of instructing diverse Software Engineering courses, including Web development, Object-Oriented programming, Machine learning, HCI, Service-Oriented Architecture and more. Also, worked as a Senior Software Engineer for 3 years, bringing practical market experience.

WORK EXPERIENCE

- School of Engineering, LUT University** FEB 2025 - PRESENT
Junior Researcher at Department of Software Engineering
- Faculty of Computer Science, MSA University**
Assistant Lecturer OCT 2024 - Jan 2025
 - Instructed a diverse range of Software Engineering courses.
 - Organized several events including 2 IEEE international conferences.
 - Guided and supported junior students during their first year.
 - Control Member
 - Served as a Faculty Ambassador.
 - Member of the Graduation Project Committee, offering guidance and assessment to senior year students with graduation projects.
 - Participated in multiple multidisciplinary research projects.
- Teaching Assistant** MAR 2020 - SEP 2024
- School of Computing, ESLSCA University** OCT 2023 - DEC 2024
Teaching Assistant (Part-time)
- IStudy** MAR 2021 - DEC 2023
Software Engineer

PUBLICATIONS

- Fusing CNNs and attention-mechanisms to improve real-time indoor Human Activity Recognition for classifying home-based physical rehabilitation exercises. Computers in Biology and Medicine.
- Rehabilitation monitoring and assessment: a comparative analysis of feature engineering and machine learning algorithms on the UI-PRMD and KIMORE benchmark datasets. Journal of Information and Telecommunication.
- Unlocking the potential of RNN and CNN models for accurate rehabilitation exercise classification on multi-datasets. Multimedia Tools and Applications
- A Robust Ensemble Deep Learning Approach for Breast Cancer Diagnosis. In 2023 Intelligent Methods, Systems, and Applications (IMSA)

CERTIFICATIONS

- Deep Learning Specialization - DeepLearning.AI
- Natural Language Processing Specialization - DeepLearning.AI
- Generative Adversarial Networks (GANs) Specialization - DeepLearning.AI
- Azure AI Fundamentals - Microsoft

AWARDS

Awarded Teaching Assistant of the Year for the academic year 2023-2024 at Faculty of Computer Science, MSA University.

CONTACT

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EDUCATION

2020 - 2024

HELWAN UNIVERSITY, EGYPT

- M.Sc. Faculty of Computing and Artificial Intelligence. Department of Software Engineering

2014 - 2018

HELWAN UNIVERSITY, EGYPT

- M.Sc. Faculty of Computing and Artificial Intelligence. Department of Software Engineering
- GPA: 3.2 / 4.0

SKILLS

- Research Methodology
- Academic Writing
- Teaching
- Machine Learning
- Python
- Tensorflow
- Web Development

LANGUAGES

- Arabic (Native)
- English (Fluent)
- Italian (Basics)