Personal Website

MOAMEN ZAHER



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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, HCl, Service-Oriented Architecture and more. Also, worked as a Senior Software Engineer for 3 years, bringing practical market experience.

OCT 2024 - NOW

MAR 2020 -SEP 2023

OCT 2023 - NOW

MAR 2021 -DEC 2023

AUG 2016 -SEP 2017

FEB 2017 -

MAR 2017

ASSISTANT LECTURER, MODERN SCIENCES AND ARTS (MSA) UNIVERSITY, EGYPT

TEACHING ASSISTANT, MODERN SCIENCES AND ARTS (MSA) UNIVERSITY, EGYPT

Instructed a variety of Software Engineering courses, offering guidance to senior-level students during their capstone projects. Contributed actively to numerous interdisciplinary initiatives and collaborations.

TEACHING ASSISTANT, ESLSCA UNIVERSITY, EGYPT

Instructed a variety of Software Engineering courses including data structures, mobile programming and OOP in addition to guidance to senior-level students during their capstone projects.

SENIOR SOFTWARE ENGINEER, ISTUDY

Developing Various API Services.

TRAINEE, VODAFONE

TRAINEE, TECHNOLOGY INNOVATION AND ENTREPRENEURSHIP CENTER (TIEC).

FDIICATION

JAN 2025 -DEC 2029

NOV 2020 -

JUL 2024

JUN 2014 -JUN 2018

PH.D. SOFTWARE ENGINEERING. LUT UNIVERSITY - FINLAND

M.SC. COMPUTER SCIENCE, HELWAN UNIVERSITY - EGYPT

Collaborated on a project focusing on integrating human activity recognition techniques into physical rehabilitation.

BA.SC. COMPUTER SCIENCE. HELWAN UNIVERSITY - EGYPT

Department of Software Engineering, GPA: 3.2

FEATURED PUBLICATIONS

- Zaher, M., Ghoneim, A. S., Abdelhamid, L., & Atia, A. (2025). Fusing CNNs and attention-mechanisms to improve real-time indoor Human Activity Recognition for classifying home-based physical rehabilitation exercises. Journal of Computers in Biology and Medicine. Elsevier. https://doi.org/10.1016/j.compbiomed.2024.109399
- Zaher, M., Ghoneim, A. S., Abdelhamid, L., & Atia, A. (2024). Unlocking the potential of RNN and CNN models for accurate rehabilitation exercise classification on multi-datasets. Journal of Multimedia Tools and Applications. Springer https://doi.org/10.1007/s11042-024-19092-0
- Zaher, M., Samir, A., Ghoneim, A., Abdelhamid, L., & Atia, A. (2023, July). A Framework for Assessing Physical Rehabilitation Exercises. In 2023 Intelligent Methods, Systems, and Applications (IMSA) (pp. 526-532). IEEE. https://doi.org/10.1109/IMSA58542.2023.10217392
- Amgad, N., Ahmed, M., Haitham, H., Zaher, M., & Mohammed, A. (2023, July). A Robust Ensemble Deep Learning Approach for Breast Cancer Diagnosis. In 2023 Intelligent Methods, Systems, and Applications (IMSA) (pp. 452-457). IEEE. https://doi.org/10.1109/IMSA58542.2023.10217501

CERTIFICATIONS

- DeepLearning.Al: Deep Learning Specialization July 2024
- DeepLearning.Al: Natural Language Processing Specialization June 2024
- DeepLearning.Al: Generative Adversarial Networks (GANs) Specialization June 2024
- 4 AWS Badges: Introduction to Cloud 101 and Getting Started with (Computer, Storage, and Networking).
- Microsoft Certified: Azure Al Fundamentals 22 Aug 2021.

- Deep understanding of Applying OOP principles to develop modular, maintainable, and scalable software solutions in Java, php, Python and C#.
- Skilled in machine learning workflows, utilizing TensorFlow and scikit-learn to create and deploy Al models for diverse tasks such as classification and HAR. Familiarity with Unity.
- Experienced in image analysis with OpenCV, adept at preprocessing, feature extraction, object detection, AR, and deploying deep learning models for image-related tasks.
- Proficient in full-stack web development, utilizing different stacks such as LAMP. Skilled in building RESTful APIs and integrating third-party services for seamless user experiences.