Gad **Gad**

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Education

MSc CS (AI Spec.) | Lakehead University, ON, Canada   2021 – 2023
  Thesis student - Research Assistant

BSc Computer Engineering | Nile University, Egypt   2015 - 2021
  Merit-based full scholarship for academic performance (CGPA: 3.88)

Skills

- **Languages** Python, C++
- **Frameworks** Numpy, Keras, Pytorch, sklearn, Pandas, etc.. able to learn others.

Publications

Peer-reviewed Journal Publications
- Gad, G., Gad, E., Cengiz, K., Fadlullah, Z., & Mokhtar, B. (2022). Deep Learning-Based Context-Aware Video Content Analysis on IoT Devices. *Electronics*, *11*(11), 1785.

Peer-reviewed Conference Publications
- G. Gad, G. Eyad, B. Mokhtar "Towards optimized IoT-based context-aware video content analysis framework" in IEEE 7th World Forum on Internet of Things, 2021.
- G. Gad, A. Annaby, M. Saeed, NK. Negied, "real time lane instance segmentation using SegNet and image processing" in IEEE Novel Intelligent and Leading Emerging Sciences, 2020.

Poster Presentations
- Gad Gad and Zubair Md Fadlullah, "Applying Computer Vision and Deep Learning to Semen Morphology and Motility Analysis," Vector Institute Computer Vision Symposium, Oct. 2021.

Awards

- Vector Institute AI scholarship recipient 21/22   Sept. 21
- Best Poster Award at NRSC 2020 conference   Sept. 20
- 3rd place in IT&CS track in the Egyptian junior researcher competition   Aug 20
- 1st place in "Networking" course project in the Undergrad Research Forum   Jul. 19

Teaching

- Teaching Assistant, Lakehead University   Sept. 21
- Junior Teaching Assistant, Nile University   Sept. 20

Experience

Research Assistant, Lakehead University   Sept. 21- Present
- Conducting research in ACCESS research group on federated learning and medical image processing.

Software engineer at Delta-care   Apr. 21- Aug. 21
- Developed the backend of an automatic microscope.
- Developed deep learning models to automate semen motility and morphology tests.

Software Intern at Vortex   Sept. 20- Jul. 21
- Software development for Vortex RoboSub 2021 competition Autonomous Underwater Vehicle (AUV) team.
- Designed and implemented collaborative ROS nodes for smart underwater detection and motion planning.

Machine learning intern at UN ESCWA and UN OICT   Nov. 20- May 21
- Satellite imagery analysis for urban development.

Online Learning

- Deep learning specialization
- TensorFlow developer professional Cert.
- *Advanced data analysis nanodegree*
- AI for medicine specialization
- *AWS certified ML specialist*
- Software Testing MicroMaster
- Introduction to Genomics technologies
- *Advanced machine learning specialization (ongoing)*

Extracurricular Activities

- **Contestant** OpenCV international AI competition.
- **Contestant** ACM competitive programming competition. Passed qualifications.
- **Contestant** Google Code Jam competitive programming competition. Passed qualifications.
- **Writer** Nu-Insider newspaper (university newspaper)