

Gad Gad

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Education

MSc CS (AI Spec.) Lakehead University, ON, Canada Thesis student - Research Assistant	2021 – 2023
BSc Computer Engineering Nile University, Egypt Merit-based full scholarship for academic performance (CGPA: 3.88)	2015 - 2021

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

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

Teaching

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| • Teaching Assistant, Lakehead University | Sept. 21 |
| • Junior Teaching Assistant, Nile University | Sept. 20 |

Experience

Research Assistant, Lakehead University <ul style="list-style-type: none">• Conducting research in ACCESS research group on federated learning and medical image processing.	Sept. 21- Present
Software engineer at Delta-care <ul style="list-style-type: none">• Developed the backend of an automatic microscope.• Developed deep learning models to automate semen motility and morphology tests.	Apr. 21- Aug. 21
Software Intern at Vortex <ul style="list-style-type: none">• Software development for Vortex RoboSub 2021 competition Autonomous Underwater Vehicle (AUV) team.	Sept. 20- Jul. 21
Machine learning intern at UN ESCWA and UN OICT <ul style="list-style-type: none">• Satellite imagery analysis for urban development.	Nov. 20- May 21

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)