

# Gad Gad

✉ ggad@lakeheadu.ca

🌐 gadm21.github.io

🐙 gadm21

🌐 gadm

📍 Ontario, CA

☎ +1 (807) 358-7137

## 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.

## Publication

### 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 |
| • 3 <sup>rd</sup> place in IT&CS track in the Egyptian junior researcher competition   | Aug 20   |
| • 1 <sup>st</sup> 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

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