CONTACTS

01060652421

g.gad@nu.edu.eg

6. October – Egypt

El monofia – Egypt

gadm21.github.io

gadm21

gadm

Gad Mohamed Gad

computer engineering student

To pursue a successful career as a software engineer where I can demonstrate and improve my skills in a challenging environment. I'm particularly interested in computer vision applications and willing to explore new territory.

EDUCATION

BACHELOR | NILE UNIVERSITY 2017 - 2020

Major**: Computer Engineering** | CGPA until now: 3.84
with a merit-based full scholarship for academic performance

BACHELOR | MUST 2015 - 2017

Major: **Electronics and Communications Engineering**, CGPA: 3.95

HIGHSCHOOL | HOMOOD EL- GABER EL-SOBAH, KUWAIT 2012 - 2015

Final cumulative average: 94.5%

SKILLS

- C++ (mainly), Python, C, and Java
- Solid understanding of deep learning, theory & practice. Mainly working TensorFlow & Keras
- worked with advanced simulation tools like Cadence, Xilinx, and MATLAB
- Excellent command of English.

EXPERIENCE

Intern at WINC, Nile university & ASRT (June. 20- Jul. 20)

- Mutli-disciplinary research project for modeling Covid-19 spread and track cases. My duty, with two other colleagues in the blockchain team was to design, implement, and document a multi-node blockchain architecture using RSA asymmetric encryption.

Intern at Silicon Waha (Feb. 2020- Apr. 2020)

- Working with a team of interns to develop a website for office reservation services to the company.

Junior teaching assistant, Nile university(Sept. 19- Jan. 20)

- In linear algebra course. My role was to work with the TA to supervise students' progress in the course project.

Intern at National Research Center (NRC) (Aug. 19- Sept. 19)

- Attended sessions at different research centers conducted by group members of AI, networking, DSP, and cloud computing at NRC, and nanotechnology labs at Electronics Research Institute (ERI).
- Participated in a project with a digital design group member for edge detection application on FBGA kit.

Participant at IBM blockchain development workshop (Feb. 19)

- worked with IBM engineers on a car agency management system using Hyperledger fabric framework.

Awards & Certificates

- 3rd place in IT&CS track in the Egyptian junior researcher competition (Aug 2020)
- Blockchain Developer exploratory & mastery badges from IBM (Feb. 2019)
- 1st place in "Networking" course project in the Undergrad Research Forum
- Scientific Research Fundamentals camp certificate from NU (Aug. 2018)
- Electronics Research Institute Internship certificate (Aug 2019)

MOOCs

- Deep learning specialization
- TensorFlow in practice specialization
- AI for Medical Diagnosis
- Software Testing fundamentals
- Blockchain: foundation & use cases
- Introduction to Genomics technologies

Extracurricular activities

- Writer in Nu-Insider newspaper (university newspaper)
- Competed in ACM competitive programming competition and passed the qualifications phase to the ECPC.
- Competed in Google's Code Jam competitive programming competition and passed the qualifications phase.

PROJECTS & ACTIVITIES

Graduation project: Real-time Crash avoidance system using CV and AI :

- **GP1 –** implemented, tested, and presented perception algorithms: Lane detection, depth estimation, Traffic sign classification, and Car detection & tracking and control algorithms: Model predictive control (MPC).
- **GP2** – started with the objective of refining GP1 results by using deep-learning based methods and integrating results in an efficient pipeline. Many DL approaches were explored, YOLOv3 & LaneNet were used, and publishing "*real-time lane instance segmentation using SegNet and image processing*" is ongoing.

Other projects implemented throughout my study

- Server/client Machine Instruction Interpreter with CPP :
  - Following OOP concepts like abstraction, inheritance, polymorphism, and encapsulation
  - Used UML diagrams to demonstrate relation and communication between objects
  - Implemented features like multithreading, TCP socket connection, and affinity setting
- Implementing Face Recognition using PCA with python, OpenCV
- Designing ALU with different adder families (CLA, RCA) on Cadence Virtuoso
- Making a Sign language translator gloves : python, Arduino, MPU, Bluetooth

❖ **Projects description and code are available on my GitHub account**