Suhaila Ahmed

Biomedical engineer

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EDUCATION

Systems and Biomedical Engineering Department
Cairo University, GPA: 3.6
📅 September 2018 – July 2023

TECHINCAL SKILLS

- **Tools**: Python, Java, C++/C, MATLAB, HTML, CSS, Java Script, Django rest framework, Swagger, React Native, GitHub, MySQL.
- **Skills:** Deep Learning, Computer vision, Image Processing, Data structures, OOP, Algorithm, PYQT, Git, Git Flow, STM32F40CC, Arduino, Arm.

INTERNSHIPS

- Service and Maintenance engineer at Siemens Healthineers| Link — **Sep 2022**
- Service and Maintenance engineer at EGMED Company |Link — **Aug 2022**
- Deep Learning internship with Najah Now |Link — **Aug 2021 - Sep 2021**
- Product specialist (Sales) at EGMED Company — **Aug 2021 - Sep 2021**
- Clinical Engineer at Dar El Shefa Hospital — **Sep 2020 - Oct 2020**

VOLUNTEERING WORK

- IEEE Student Activity Cairo University branch Vice Technical Manager — **2022, Ongoing**
- IEEE CUSB Biomedical Head |Link — **2021/2022**
- Cairo Uni Racing Team Member — **2021/2022**
- K-Vector event planning Member — **2020/2021**

ACCOMPLISHMENTS:

Deep Learning Specialization, Stanford University
AWS AI & ML Additional Nanodegree Udacity — **Ongoing**
AWS AI & ML Scholarship Udacity |Link — **Nov, Mar 2023**
Data Analysis Udacity Advanced Track| Link — **Apr,2021**
Data Analysis Udacity Professional Track|Link — **Apr,2020**
Data Analysis Udacity Challenger Track |Link — **Oct,2020**

PROJECTS

Face Reminder - Graduation Project: — In Progress

- With supervision of **Uniparticle company** Developed a mobile application to help people with Prosopagnosia disease recognize familiar faces of his surrounding network.
- Used **RetinaFace** detector and **FaceNet** recognition model in facial recognition step.
- **Deep Learning models, Django, React Native.**

Face Shape Classifier |Link — Feb,2023

- Desktop application to classify human face shape based on a Swin vision transformer model
- **Swin-Transformers, PyTorch, PYQT.**

Facial Aging | Link — Sep,2021

- Project to find missing children by inserting their child faces and predict faces after years of aging using **cGAN, FaceNet.**

Vital signs monitor |Link — Oct,2021

- An application to monitor the vital signals like ECG, EMG of patient in ICU of hospital.
- **Python, PyQT, OpenCV, FFT, Matplotlib**

Digital filter on vital signals |Link — Feb,2022

- A website to design a custom digital filter to apply it on different signal types (Signal Filtering).
- **Web, JavaScript, HTML, Flask, CSS**

DICOM Online body images Viewer |Link — Jan,2022

- A Website to render volumes of body model with options of clipping, cropping and iso-rendering.
- **Web, JavaScript, HTML, VTK, React, CSS**

Relation between Covid-19 and Omicron|Link — 2022

- Analyzing the DNA sequence of covid-19 and omicron variant and statistically representing the relation between them
- **Bio-Informatics, Bio-Statistics, Phylogenetic Tree**

Image Classifier |Link — Mar,2022

- A python application to predict flower's type.
- Trained using flower images using **PyTorch**.

Microcontroller Interface with LM-35 |Link — May,2022

- **Embedded, C, STM-32, ADC Driver, Proteus**

Handwritten Recognition |Link — May,2022

- Recognize characters in documents using deep learning models: **CNNs and LSTM**

Signal Sampling Illustrator |Link — Nov,2021

- An illustrator for the analog signal recovery using the Nyquist rate theory.

Signal interpolate predictor |Link — Dec,2021

- An application that illustrates the efficacy of different curve fitting and interpolation models.
- **Python, PyQT, OpenCV, FFT, Matplotlib**

Music Equalizer |Link — jan,2022

- Signal processing on songs to emphasize certain instruments.
- **Python, PyQT, OpenCV, FFT, Matplotlib**