

Ramadan Ibrahim

SENIOR STUDENT · BACK-END DEVELOPER

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Education

Cairo University

BSC IN BIOMEDICAL ENGINEERING

- GPA: 3.2

Giza, Egypt

2017–2022

Training & Work Experience

School Management System

BACK-END FREELANCER

- Transformed a local system from using Access & VBA
- Design the Database and Deploy it to cloud
- Design Daily Reports
- Keywords: **JavaScript, ElectronJs, Postgresql, Sequelize**

Online

July-Oct 2021

Sprints iCamp Internship

SPRINTS & NAID

- 45 Days of intensive training using web technologies
- Working on a graduation project to help people with disabilities
- Designed Database Schema RESTful APIs and It's Docs
- Keywords: **HTML, CSS, JavaScript, Angular, NodeJs, ExpressJs, MongoDB, Mongoose**

Online

July-Oct 2021

Entrepreneurship Training - InnovEgypt.

TIEC - ITEDETA

- A Six-day intensive hands on training about the main principles of entrepreneurship
- Keywords: **Design Thinking, 5-Whys, Empathy Map, User Persona, Business Model**

Online

Aug 2020

Clinical Engineering Internship

KASR AL-AINY MEDICAL SCHOOL

- A One-month internship about the role of biomedical engineer in the hospital
- Learned about the **ICU, OR, Hemo-dialysis, Ventilators**

Old Cairo

July 2019

Skills

🔧 **Languages** Python, C, C++, Java, JavaScript

📚 **Libraries** ExpressJs, ElectronJs, Flask, Numpy, Pandas, Matplotlib, PyQt5

🗄️ **Database** MySQL, Postgresql, MongoDB

⚙️ **Tools** Docker

🐧 **OS** Windows, Linux

⚙️ **Digital Type Settings** MS Office, LaTeX, markdown

💻 **IDES** IntelliJ IDEA, Visual Studio Code

Courses

- Python for Everybody 📄 Sep, 2020
- Algorithmic Toolbox 📄 Sep, 2021
- Database Design and Basic SQL Queries 📄 Sep, 2021

Projects

Bio-Medical Image Compression. 📄

TEAM LEADER

May 2020

- A Command Line Application for Lossless Image Compression using Huffman Coding Algorithm
- Keywords: **C++, CMake, Compression, Huffman Coding**

Radiology Information System. 📄

TEAM LEADER

Jan 2021

- A Back-end Radiology Information System Application Using Flask
- Keywords: **Back-end, Database, Flask, SQLAlchemy**

Multi-Channel Bio-Signal Viewer 📄

TEAM LEADER

March 2021

- A Multi-Channel Bio-Signal Viewer GUI Application Using Python's PyQt5, and it has the ability to export the signals as PDF
- Keywords: **GUI, Python, PyQt5, pyqtgraph, FPDF, Numpy**

Digital Filter Design 📄

TEAM LEADER

May 2021

- A Web Application for designing Digital Filters Using **Z-Transform**
- Keywords: **JavaScript, P5.js, Chart.js**

Images Mixer 📄

TEAM LEADER

May 2021

- This is a PyQt5 GUI Application and An Application for the Fast Fourier Transform. Mixing the Magnitude and Phase of the Complex Domain of Two Images.
- Keywords: **FFT, Python, GUI, PyQt5**

Music Equalizer 📄

TEAM LEADER

April 2021

- This is a Sound Equalizer GUI App Using Python's PyQt5. It gives you the ability to play, pause, and Equalize any one-channel wav audio file
- Keywords: **GUI, Python, PyQt5, pyqtgraph, FPDF, Numpy, FFT, Librosa**

Trassembley 📄

TEAM LEADER

April 2021

- This is a Traffic Light System Using Assembly and 8051 MCU
- Keywords: **Assembly, MCU, 8051, Proteus**

Cancerous Gene Expressions 📄

TEAM LEADER

Jan 2021

- A Python Program to detect the Correlation between cancerous and healthy data. And do some hypothesis testing on this data
- Keywords: **Python, Pandas, Numpy, Matplotlib, Scipy, Seaborn**