

Ramadan Ibrahim

SENIOR STUDENT · SOFTWARE ENGINEER

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Education

Cairo University

BSC IN BIOMEDICAL ENGINEERING

- GPA: 3.2

Giza, Egypt

2017-2022

Training & Work Experience

School Management System

CONTRACTOR

Online

July-Oct 2021

- Increased the productivity of the school by transforming the local access database on one computer to postgresQL on the cloud accessible for multiple devices
- Keywords: **JavaScript, ElectronJs, Postgresql, Sequelize**

Sprints iCamp Internship

SPRINTS & NAID

Online

July-Oct 2021

- 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**

Entrepreneurship Training - InnovEgypt.

TIEC - ITEDETA

Online

Aug 2020

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

Clinical Engineering Internship

KASR AL-AINY MEDICAL SCHOOL

Old Cairo

July 2019

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

Skills

- Languages** JavaScript, TypeScript, Python, C, C++, Java, Go
- Stack** ExpressJs, Sequelize, Mongoose, WebSockets, Mocha, Chai, ElectronJs, Flask, PyQt5
- Database** MySQL, PostgreSQL, MongoDB
- Tools** Docker, GitHub Actions
- OS** Windows, Linux
- Digital Type Settings** MS Word, \LaTeX , markdown
- IDEs** Visual Studio Code

Courses

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

Projects

Psy Awareness

BACKEND DEVELOPER

Graduation Project

Sep 2021 - May 2022

- A Full-Stack Application Targeting Mental Health in Arab Societies
- Keywords: **ExpressJs, MongoDB, Docker, Postman, Socket.io**

Radiology Information System

TEAM LEADER

Jan 2021

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

ICU Real-time Monitoring System

TEAM LEADER

April 2022

- A Hybrid API and Web-socket server used in Intensive Care Units (ICUs) of a hospital. Showing rooms, patients, and sensors
- Keywords: **JavaScript, websockets, ExpressJs, sqlite3**

Autonomous Car

TEAM LEADER

March 2022

- A Two-mode car (Pilot and auto-pilot) using websocket to connect the Mobile Camera, ESP Module and Mobile Application Controlling the Car
- Keywords: **JavaScript, websockets, Python, OpenCV**

Remote Monitoring Service

TEAM LEADER

Feb 2022

- Monitor Sensors Readings and Send Controlling Signals using long-polling
- Keywords: **TypeScript, Sqlite3**

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**

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**

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**

Trassembly

TEAM LEADER

April 2021

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