S a e e d
K h a l e d

S t u d e n t 🎓

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🏠 Giza, Kerdasa

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EDUCATION 🎓

- **Faculty :** Engineering, Cairo University.

- **Department :** Biomedical Systems And Engineering.

- **Grad :** Very Good.

- **Status :** Senior Student.

SKILLS 👤⚙

</> Programming Languages
C, C++, Javascript, Python

↳ Back-End Development
Node.js, Express.js, Mongoose, Postman, Docker, Socket.io

⬓ Database Systems
MySQL, MongoDB

⬓ Front-End Development
HTML, CSS, Bootstrap ,React

◉ OS
Windows, Linux

TRAINING EXPERIENCE 🏅

🌐 SIG Medical Solutions
📅 Jun 2018 â€" Jul 2018   📍 Online
Ultrasound working principle, Types of Ultrasound probes, Modes of operation

🧍 Clinical Internship
📅 Jun 2019 - Jul 2019
El Demerdash Hospital, Principles of clinical engineering and the work ï¬‚ow in the hospital. General knowledge of medical equipment.

ⓙ Node.js, Express, MongoDB & More: The Complete Bootcamp 2022
📅 Jun 2021 - Mar 2022   📍 Online
deep-dive course with over 40 hours of content!the course is crammed with tons of different technologies like RESTful API design, Mongoose, Express, MVC architecture, Atlas Compass, Git,Heroku ,error handling workflows,Sending emails with Mailtrap

❀ React Tutorial and Projects Course
📅 Jun 2019 - Jul 2021   📍 Online
react principles , work flow , hooks ,styled components ,and alot projects

PROJECTS 🖥

Hospital Information System . ○
» System For Hospital Intensive Care Unit To Help Monitoring Patient Status .
» Tools: **C++, Qt**

Surgery Department Website ○
» A Full Stack Website Surgery-Department Data Base For A Hospital
» Tools: **Python-Flask,Sql Database , HTML , Css , Javascript**

Digital Filter Design. ○
» A Web Application For Designing Digital Filters Using Z-Transform
» Tools: **C++, Qt.**

Multi-Channel Bio-Signal Viewer. ○
» A Multi-Channel Bio-Signal Viewer GUI Application Using Pythonâ€™SPyQt5
» The App Has Ability To Export The Signals As PDF.
» Tools: **Python, PyQt5, Pyqtgraph, FPDF, Numpy**

Image Mixer ○
» 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.
» Tools: **FFT, Python, PyQt5**

FAST FOURIER ○
» This Is A Console Application Implementing The Fourier Transform Algorithm And The Fast Fourier Transform Algorithm Using C++ Language.
» Tools: **Python,C++, Ctypes, Ndpointer**

CANCEROUS GENE EXPRESSIONS. ○
» A Python Program To Detect The Correlation Between Cancerous And Healthy Data . And Do Some Hypothesis Testing On This Data.
» Tools: **Python, Pandas, Numpy, Matplotlib, Scipy,**

MEDICAL DATA VISUALIZATION. ○
» PyQt5 GUI Application Load 3D Image And Control Seeing The Different Segmentations Of Head Or Heap Like Skin Or Skull...Etc.
» Tools: **Python, PyQt5, Numpy, Vtk Library**

Music Equalizer ○
» Using Python's PyQt5, This Is A Sound Equalizer GUI App. Any Wav Audio File Can Be Played, Paused, And Equalised With It.
» It Also Has The Ability To Select A Specefic Band Of Frequency To Run
» Tools: **Python, PyQt5, Pyqtgraph, Numpy, FFT, Librosa**

Music Identifier ○
» This Is A GUI Desktop App Used To Extract Features From Group Music, Then Identify The Music Base On Feature Extraction
» Tools: **Python, PyQt5 ,Matplotlib, Matplotlib Library**