Ramadan Ibrahim

Sofware Engineer

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Work Experience

Rawd As-Saleheen Bi-Lingual School — *August 2022 – Present*
Backend Contractor — *Remote*

- Integrated multiple services into the application (e.g.: MyFatoorah, FCM, SendGrid, SMSBox, and Google Drive).
- Enhanced database performance by applying appropriate indexes to optimize the execution time.
- Implemented Puppeteer automation to generate invoices and reports.
- **Technologies Utilized**: JavaScript, ExpressJS, MYSQL, Sequelize

School Management System — *July – December 2021*
Software Contractor — *Remote*

- Migrated the access VBA application to ElectronJs
- Host the database on a remote cloud provider to ease collaboration.
- **Technologies Utilized**: JavaScript, ElectronJs, PostgreSQL, Sequelize

Education

Bachelor of Engineering | Systems & Biomedical Engineering — *Cairo University*
Graduation Project: Psy-Awareness — *September 2017 – July 2022*

Relevant Coursework

- *Database Engineering*
- *Computer Networking*
- *Data Structures & Algorithms*
- *SW for HW Interfacing*
- *Machine Learning*
- *Bio-Statistics*
- *Computer Architecture*
- *Digital Signal Processing*
- *Computer Graphics*

Training & Certificates

Sprints iCamp Internship (Training) — *July 2021 – October 2021*
Sprints & NAID — *Remote*

- A 45-Day Intensive Training Program
- The graduation project was an application to review the accessibility of different places in a country
- **Technologies Utilized:** HTML, CSS, JavaScript, Angular, NodeJs, ExpressJs, MongoDB, Mongoose

Entrepreneurship Training - InnovEgypt — *August 2020*
TIEC - ITEDETA — *Remote*

- A Six-day intensive hands-on training about the main principles of entrepreneurship

Projects

Psy Awareness | Graduation Project — *September 2021 – June 2022*
Backend Developer — *Graduation Project*

- Developed a comprehensive full-stack application that targeted mental health challenges in Arab society.
- **Key Features:**
  - **Appointment Booking System:** The user can navigate through the system and pick a doctor, read reviews about him/her, and schedule an (online/offline) session.
  - **Public Health Questionnaires:** User can take one of the acknowledged mental health questionnaires for free (e.g.: Taylor Manifest Anxiety Scale and MMPI)
- **Technologies Utilized:** ExpressJs, MongoDB, Docker, Postman, Socket.io

ChatApp *April 2024*

- A real-time chat rooms app with functionalities to (create rooms and chats, partially search chat messages)
- **Technologies Utilized:** Ruby on Rails, MySQL, Sidekiq, ElasticSearch

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Kabsa *Augest 2024*

- A simple and lightweight tool to log key presses and WPM (Words Per Minute) in real time.
- **Technologies Utilized:** Go, Goroutines, SQLite

Topology API *May 2022*

- A Simple REST API to handle Microelectronics' topology.
- **Technologies Utilized:** Java, SpringBoot, Gson, Junit, Maven

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Radiology Information System *Jan 2021*

- A full-stack Radiology Information System (RIS)
- **Technologies Utilized:** Flask, SQLAlchemy

ICU Real-time Monitoring System *April 2022*

- A RESTful API and WebSocket server for Intensive Care Units (ICUs) devices in a hospital.
- **Technologies Utilized:** JavaScript, websockets, ExpressJs, sqlite3

Autonomous Car *March 2022*

- A Two-mode car (Pilot and auto-pilot) using WebSocket to connect the Mobile Camera, ESP Module, and a mobile application to control the car.
- **Technologies Utilized:** JavaScript, WebSockets, Python, OpenCV

Music Equalizer *April 2021*

- Developed a Music Equalizer utilizing Python's Numpy math library & PyQt5 GUI library for enhanced audio control.
- Created a spectrogram of the audio file for visual analysis and enhancement.
- **Keywords:** Audio processing, GUI Development

Bio-Medical Image Compression *May 2020*

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