

Hossam Elbeialy

Software Engineer

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EDUCATION

Bachelor of Computer Engineering and Control Systems – GPA 3.54

Suez Canal University - 3rd of my class

Dec. 2018 – 2023

IGCSE – 8 A*, 1 A

Al Manar Language School

Jul. 2016 – Jul. 2018

EXPERIENCE

Global Virtual Intern

RadicalX

Aug. 2022 – Sep. 2022

Software Engineer Intern

DevisionX

Aug. 2021 – Oct 2021

- Was responsible of implementing and fixing over **50 bugs and features** in both backend and frontend
- Learnt new technologies in span of **a week and on the fly** to improve the quality of website and the server.
- **Technologies used:** React.js, Flask, Docker, GCP, S3, Elasticsearch

Section Leader - Volunteering

Stanford University

Apr. 2020 – May. 2020

- I was proud to be one of the **900 teachers** around the world chosen to help over **10,000** students around the world, of different age and background, to learn how to code using python in initiative by Stanford university called **Code in Place**

COURSES

Deep Learning Specialization 🎓

Coursera

Oct. 2022

- Built and trained deep neural networks, identified key architecture parameters, implemented vectorized neural networks and deep learning to applications
- Learnt about Train test sets, analyze variance for DL applications, use standard techniques and optimization algorithms, and build neural networks in TensorFlow
- Built a CNN and applied it to detection and recognition tasks, used neural style transfer to generate art, and applied algorithms to image and video data
- Built and trained RNNs, worked with NLP and Word Embeddings, and used HuggingFace tokenizers and transformer models to perform NER and Question Answering

Machine Learning Specialization 🎓

Coursera

Sep. 2022

- Built ML models with NumPy scikit-learn, built trained supervised models for prediction binary classification tasks (linear, logistic regression)
- Built trained a neural network with TensorFlow to perform multi-class classification, built used decision trees tree ensemble methods
- Applied best practices for ML development used unsupervised learning techniques for unsupervised learning including clustering anomaly detection
- Built recommender systems with a collaborative filtering approach content-based deep learning method built a deep reinforcement learning model

Advanced Full-Stack Web Development Nanodegree Program

Udacity

Feb. 2022 – Apr 2022

- The Nanodegree consisted of **3 main parts**:
 - * Backend development using **Node.js**
 - * Creating Restful APIs using **PostgreSQL & Express**
 - * Deployment Process with **AWS services & CircleCi**

Web Development Using .Net Trainee

Information Technology Institute (ITI)

Jul. 2021 – Aug 2021

- Learnt About:
 - * SQL Server
 - * Visual C#
 - * Linq & EF
 - * Asp.Net mvc

PROJECTS

Visual Steering for Deep Neural Networks Using Explainable Artificial Intelligence

Graduation Project  

- Developed a novel approach to integrate human knowledge with deep neural networks.
- Leveraged attention maps generated by **Grad-CAM** to highlight influential input regions.
- Applied the method to image classification datasets, achieving high accuracy.
- Contributed to the field of AI by enhancing interpretability and reducing biases.

Rwah Al Hadeeth

Freelancing

- Developed and launched a comprehensive app featuring the narrators of the Hadiths of Prophet Muhammad.
- Curated a database with over **45,000 narrators** and **1 million Hadiths**.
- Created the app from scratch, including data scraping and database setup.
- Successfully hosted the app on the Google Play Store.
- Proficiently managed the technical aspects, including database hosting on Hostinger.

SKILLS

Proficient : Python, Flask, SQLite, JavaScript, Typescript, Node.js, React.js, Express, Jasmine, PostgreSQL, Dart, Flutter, Docker, GCP, AWS, Firebase, HTML/CSS, Git, Github

Moderate : Tensorflow, Keras, Numpy, C, Linq, Ef, Asp.net, Elasticsearch, C++, Java, C, Kotlin