

# Fady ElHalfawy

## Software Engineer

Passionate Software Engineer who enjoys daily challenges, critical thinking and problem solving. A top of class graduate adept at working across departments, with faculty, administrators, and students with a record of academic success. Eager to learn new technologies, know in-details about their underlying concept and participate in latest technologies.

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## EDUCATION

### Bachelor's of Computer Science (B.CS.)

Arab Academy for Science, Technology and Maritime Transport

09/2016 - 06/2020

Alexandria, Egypt

GRADE

- 3.3 (Very Good with Honor)

## WORK EXPERIENCE

### Military Software Engineer

Air Defense College

10/2020 - 12/2021

Alexandria, Egypt

Teacher Assistant (with certificate)

Tasks

- To plan and prepare appropriately the assigned courses and lectures
- Teach students about the principles of technology and how to use basic information technology tools in their work and live
- Teach Students basics C and Python programming languages
- Tracking and communicating students' advancement throughout the course

### Software Engineer

ITWorx

06/2022 - Present

Cairo

Working on international projects using Sitecore and DoZen

Achievements/Tasks

- Build Websites
- Debug Live Websites
- Create new features on sitecore

## SKILLS

Java

JavaScript

TypeScript

MongoDB

Express

React

Node.js

Sitecore

SQL

Database

Problem Solving

Data Structures

Object-oriented programming

SOLID Principles

Design Patterns

REST API

GIT

## GRADUATION PROJECT

Autonomous Vehicles (09/2019 - 06/2020)

- Working on Semantic segmentation for scene understanding in which classification is performed on every single pixel of an image. Semantic segmentation is used in autonomous vehicles to locate frontal objects such as roads, dividers, vehicles, pavements, etc. It is a vital subsystem of the vehicle's navigation system.
- Developing Variationally Autoencoder (VAE) model that learns how to compress and decompress some data representation to achieve a good dimensionality reduction, leading to a compressed data that is potentially less expensive in terms of computation.
- Implementing Bird View a driver can check for obstructions around the vehicle. The system can display the bird's-eye, front and rear views, making it possible to check the vehicle's 360-degree surroundings simultaneously with either the fore and back.

## PERSONAL PROJECTS

Movies App (<https://github.com/fadyelhalfawy/movies-website>)

Implementing authentication, authorization, registration, dashboard, restful API using react, javascript and axios.

Reviews(<https://github.com/fadyelhalfawy/reviews>)

Improving my javascript and react knowledge, going in-depth of the technology and writing clean code.

Order Food (<https://github.com/fadyelhalfawy/order-food>)

Learning animation best practices in react.

Update Tweeter Twitted  
(<https://github.com/fadyelhalfawy/gameball>)

Implementing authentication, authorization, registration, restful API using react, javascript, nodeJs, MongoDB.

Display  
Tours(<https://github.com/fadyelhalfawy/display-tours>)

Implementing dashboard of tours images using animations in react, javascript.

## LANGUAGES

Arabic

Native or Bilingual Proficiency

English

Full Professional Proficiency