

Rimon Adel

Alexandria, Egypt

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EDUCATION

Alexandria University

Bachelor's degree in Computer and Communications Engineering

GPA: 3.54/4.0

Alexandria, Egypt

Graduated: June 2020

Certificates

- ROS (Robot Operating System) summer school from FH Aachen. [Certificate](#) Aachen, Germany
- VMware Students Workshop at DELL Technologies [Certificate](#) Cairo, Egypt
- API Design and Fundamentals of Google Cloud's Apigee API Platform. [Certificate](#) Coursera
- API Security on Google Cloud's Apigee API Platform. [Certificate](#) Coursera
- API Development on Google Cloud's Apigee API Platform. [Certificate](#) Coursera
- Algorithmic Toolbox, University of California San Diego. [Certificate](#) Coursera

EXPERIENCE

junior software engineer

EJADA Systems Ltd

- software developer.

Alexandria, Egypt

15/8/2020-present

Students Workshop at VMware

DELL Technologies

- I was one of very few collage students that were selected from all over Egypt to learn the foundation of virtualization i.e. (Hypervisors - Virtual Machines - vCenter - vMotion.....,etc.)

Cairo, Egypt

winter 2020

Mind Cloud (Robotics Team in collage)

Software Engineer , Embedded software Engineer

- Monitoring System** : Created this system that allowed us to monitor Rover's motors' speed, rover position and motors' current.
- Rover Control Using WIFI**: Using this system that we developed, We were able to control all the Rover's function using local network.

Alexandria, Egypt

2016 - 2019

XCode Systems

Software Engineer Intern

- Employee Management App**: managers would manage employees, departments and projects using this android app.

Cairo, Egypt

summer 2018

PROJECTS

api monitization and payment gateways using drupal and commerce2

allowing companies to buy our API product and pay for it, and integrating new payment gateway with commerce2 **language: php**
& **tool: apigee**

Work

Size recommendation from two images and cloth visualization for online shopping

this project allowed the user to take his body measurements using only 2 images (front and side image) we created a machine learning model to detect needed keypoints and the computer vision will calculate user's body measurements **language: Python & unity**

Graduation Project

Coloring Machine from SVG-image using marlin

it is the first project that can take any SVG image with size 300x300 mm or less and convert this image to Gcode. then you can take the output file and send it serially to marlin firmware using pronterface. as i can't have 16 million color on the machine, i used 1-NN (KNN) to get the closest fit for the color.

Side Project

language: Python & C

Stereo Matching using dynamic programming

A python script that take 2 image(i.e. left and right) as input and calculate the disparity map using dynamic programming technique this is very useful for autonumus robots and self driving cars.

Collage Project

language: Python

Circus OF Plates

using java we maked 2D game. The player can select levels of hardness from three levels. in this game where player controls the clown's movement to collect matching colored plates.

Collage Project

language: Java

8-Puzzle-Solver

using java, we Implemented project that solved the 8-Puzzle game using different search algorithm like : Breadth Frist Serach, Depth Frist Serach and A*.

Collage Project

language: Java

Risk-Game

Implemented using java we created Risk-Game and 3 non AI agents and another 4 AI agents to play with the human. the AI agents are Implemented using : Greedy Algorithm , A* search , Real Time A* search and Min-Max search.

Collage Project

language: Java

Programming Languages and Frameworks

- **Preferred Programming Languages** : JAVA, C/C++, Python,.
- **Intermediate knowlage** : HTML, CSS, JAVASCRIPT, REACT.JS, DJANGO, FLASK.
- **Basic knowlage** : RUBY ON RAILS, Node.js, Kafka, RabbitMQ.

ADDITIONAL

- **Relevant Collage Courses** : Programming I, Discrete Structures for Computing, Programming II, design patterns, Data Structures I, Computer Organization, Data Structures II, Systems Programming, Computer Architecture, Artificial Intelligence, Analysis and Design of Algorithms, Operating Systems, Database Systems, Programming Languages Translation, Pattern Recognition, Embedded Systems, Computer Networks, Computer Vision, Performance Evaluation, Computer Graphics.
- **technologies and tool** : OOP, MVC, Git, SQL, Linux.
- **traits** : self-learner, passionate to learn new technologies, hard worker, fast learner, Self-motivated, problem solver.

Languages

- Arabic: Mothertongue.
- English: Fluent.