Rimon Adel

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EDUCATION

Alexandria University **Alexandria, Egypt**
Pursuing Bachelor's degree in Computer and Communications Engineering *Expected Graduation: June 2020*
GPA: 3.52/4.0

Certificates

- ROS (Robot Operating System) summer school from FH Aachen. **Certaficate** Aachen, Germany
- VMware Students Workshop at DELL Technologies **Certaficate** Cairo, Egypt
- Embedded systems course from AMIT learning center. **Certaficate** Alexandria, Egypt

EXPERIENCE

XCode Systems **Cairo, Egypt**
Software Engineer Intern *summer 2018*
- **Employee Management App**: managers would manage employees, departments and projects using this android app.

Students Workshop at VMware **Cairo, Egypt**
DELL Technologies *winter 2020*
- 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.)

Mind Cloud (Robotics Team in collage) **Alexandria, Egypt**
Software Engineer , Embedded software Engineer *Oct 2016 - Present*
- **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.

PROJECTS

Coloring Machine from SVG-image using marlin *Side Project*
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. **language: Python & C**

Stereo Matching using dynamic programming *Collage Project*
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. **language: Python**

Circus OF Plates *Collage Project*
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. **language: Java**

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

Risk-Game *Collage Project*
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. **language: Java**

Programming Languages

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

ADDITIONAL

- **Relevant Collage Courses** : Programming I, Discrete Structures for Computing, Programming II, desigm 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 lerner.

Languages

- Arabic: Mothertongue.
- English: Fluent.