

# Rimon Tawadros

Alexandria, Egypt

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[Google Scholar](#) [leetcode](#)

## Academic Publications

- SEP 2021 **Automatic Customers Body Measurements and Size Recommendation System using Computer Vision Techniques - Alexandria University.**  
proposed a Machine Learning approach that can calculate body measuring for users, and recommend the closest cloth size that will fit the user. This will help client of online clothes stores to shop with high confidence knowing that the AI will accurately estimates of their body measurements with respect to the retailer size charts. Its the first system to automatically measure body parts and predict subjects size using two RGB images only.

**Technologies:** Machine Learning Deep Learning AI Python unity

## Experiance

- 08/2021 - Present **Software Engineer, Rubikal, Egypt.**
  - **Developed:** Game development platform where user can work on tasks and upload his work. Then Leader can review the tasks.
  - **Enhanced:** The accessibility of the platrom by Integrating Google and discord oauth2.0 (authentication code flow).
  - **Developed:** Platform for accounting firm where client can chat with the accountant, get notifications and create folder structure and upload files.
- 08/2020 - 08/2021 **Software Engineer, Ejada, Saudi Arabia.**
  - **helped** in the digital transformation of ministry of finance by building REST apis that work as adapter for internal SOAP apis.
  - **Enhanced Security** of the APIs by adding oauth, jwt and spike arrests to the adapter APIs.
  - **Developed:** Platform for viewing, testing, and purchasing the APIs.
  - **Integrated** the Platform with sms , mailing and payment services to notify the client with with his invoice after issuing it.
- winter 2020 **Software Engineering Training (Workshop at Dell EMC), Dell Technologies, Egypt.**
  - **Designed and Built** IOT work ow to collect and analyse OBD2 data from cars.
- winter 2020 **Software Engineering Training (Workshop at VMware), Dell Technologies, Egypt.**  
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.).
- summer 2018 **Software Engineer Intern, Dell Technologies, Egypt.**
  - **Designed and Built** Employee Management App: managers would manage employees, departments and projects using this android app.

## Education

- 2020 **Bachelor of Computer and Communications Engineering, Alexandria University, Alexandria, GPA 3.54/4.0.**  
(Excellence with honor)

## SKILLS

- Languages Ruby, JavaScript, Typescript ,Python, C/C++, Java, HTML/HTML5, CSS/CSS3, SCSS.
- Frameworks Ruby on Rails, Vue.js, Django, flask.
- Technologies Kafka, RabbitMQ, OOP, MVC, Git, SQL, REST, GraphQL, Http/Https, oauth2.0, Linux.
- Relevant Collage Courses Data Structures I/II, Analysis and Design of Algorithms, Discrete Math, Design Patterns, Database Systems, Computer Networks, Security, Distributed Systems, Systems Programming, Computer Organization, Computer Architecture, Operating Systems, , Programming Languages Translation, Pattern Recognition, Embedded Systems, Computer Networks, Articial Intelligence, Computer Vision, Performance Evaluation, Computer Graphics.
- Soft Skills problem solver, hard worker, self-learner, passionate to learn new technologies, fast learner, Self-motivated.

## Selected Projects

- Collage Project **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.
- Technologies:** Java

Side Project	<b>Coloring Machine from SVG-image using marlin.</b> 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. Technologies: Python C
Collage Project	<b>Spying bug.</b> Using embedded microprocessor with WiFi module (ESP8266) and microphone.I was able to perform voice sampling, and pushing the digital records to AWS server that Implements messaging pattern. that serve store the records and relay it to any device Subscribed to this record corresponding topic. Technologies: c/c++ python https TCP Publish/Subscribe pattern
Collage Project	<b>Image Segmentation.</b> Solving clustering problem using: K-means -Normalized Cut algorithms. Technologies: Java

## Certificates

- ROS (Robot Operating System) summer school from FH Aachen. <a href="#">Certificate</a>	<i>Aachen, Germany</i>
- VMware Students Workshop at DELL Technologies <a href="#">Certificate</a>	<i>Cairo, Egypt</i>
- API Design and Fundamentals of Google Cloud's Apigee API Platform. <a href="#">Certificate</a>	<i>Coursera</i>
- API Security on Google Cloud's Apigee API Platform. <a href="#">Certificate</a>	<i>Coursera</i>
- API Development on Google Cloud's Apigee API Platform. <a href="#">Certificate</a>	<i>Coursera</i>
- Algorithmic Toolbox, University of California San Diego. <a href="#">Certificate</a>	<i>Coursera</i>
- Data Structure, University of California San Diego. <a href="#">Certificate</a>	<i>Coursera</i>

## Languages

- Arabic: Mothertongue.	- English: Fluent.
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