

# Adel Refat

Final Year  
Biomedical Engineering  
at Cairo University  
GPA:3.18

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## Links

Github:// [adel-elmala](#)  
LinkedIn:// [adel-elmala](#)

## Skills

OS  
GNU/Linux  
PROGRAMMING PARADIGMS  
OOP , Functional Programming  
LANGUAGES  
Python, Ruby , OCaml  
OTHERS  
Markdown, Git,  $\text{\LaTeX}$

## Coursework

Data Structures  
Algorithm  
DataBase management

## Education

2016-2021  
CAIRO UNIVERSITY  
Biomedical Engineering  
GPA : 3.18

2013-2016  
HIGH SCHOOL  
Percentage: 97.2%

## Projects

- |      |   |               |
|------|---|---------------|
| 2020 | <b>16-Bit von neumann architecture Assembler</b>  | <b>Repo</b>   |
|      | Trasnlates from Hack's assembly instuctions to hack's 16-bit Machine language                 |               |
|      |   | <i>Python</i> |
| 2020 | <b>16-Bit von neumann architecture Virtual Machine translator</b>                             | <b>Repo</b>   |
|      | trasnlates from VM-Language to HACK's assembly language.                                      |               |
|      |   | <i>Python</i> |
| 2020 | <b>Enigma Simulator</b>   | <b>Repo</b>   |
|      | Software replica of the Enigma encryption machine used by the German military in World War II |               |
|      |   | <i>OCaml</i>  |
| 2020 | <b>Simple Language Interpreter</b>  | <b>Repo</b>   |
|      |   | <i>Racket</i> |
| 2020 | <b>JPEG decoding Stepper</b>  | <b>Repo</b>   |
|      | Shows the different stages of Decoding JPEG Files   |               |
|      |   | <i>Python</i> |
| 2020 | <b>Text adventure game</b>  | <b>Repo</b>   |
|      | Simple Text-based Game Engine that read an adventure Json File and starts the game            |               |
|      |   | <i>OCaml</i>  |
- More**

## Certificates and MOOCS

- |          |   |                    |
|----------|---|--------------------|
| 2020-NOW | <b>Machine Learning</b>   | <b>Certificate</b> |
|          | Machine Learning Basics (Supervised/Unsupervised learning - Neural Networks ... )   |                    |
| 2020-NOW | <b>Programming Languages part B</b>   | <b>Certificate</b> |
|          | Introduction to the basic concepts of programming languages, with a strong emphasis on functional programming using Racket (Dynamic type system language).              |                    |
| 2020-NOW | <b>Programming Languages part C</b>   | <b>Certificate</b> |
|          | Introduction to the basic concepts of programming languages, with a strong emphasis on OOP programming using Ruby (Dynamic type system language).                       |                    |
| 2020-NOW | <b>Build a Modern Computer from First Principles - Part 1</b>   | <b>Certificate</b> |
|          | Build a modern computer system, from the ground up from constructing elementary logic gates all the way through creating a fully functioning general purpose computer). |                    |

**More**