

# Karim M. Elsayad

**Mobile:** +201019491187

**Email:** [karimelsayad1999@gmail.com](mailto:karimelsayad1999@gmail.com)

**Github:** <http://GitHub.com/KarimElsayad247>

**Portfolio:** <http://portfolio.karimelsayad.me/>

## Education

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Faculty of Engineering – Alexandria University

- Computer and Communications Department
- GPA: 3.44

Alexandria, Egypt

Sep. 2018 – Jul. 2022

## Experience:

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- **DevOps Training – NAID Internship** Aug. 2021 – Oct. 2021  
Learned Linux, bash scripting, docker, AWS, Jenkins. Deployed a MEAN app on an AWS EC2 instance. Implemented a CI/CD pipeline.

## Skills

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- **Languages:** C, C++, Python, Java, PHP, Ruby, HTML5/CSS, JavaScript, bash, Lua, Matlab, SQL
- **Tools and Frameworks:** Git, Jupyter Notebooks, numpy, matplotlib, pandas, pytorch, Tensorflow, Linux, cli, docker, Jenkins, AWS, OpenGL, JavaFX
- **Relevant courses:** Numerical Analysis, Pattern Recognition, Software Engineering, Computer Architecture, Microprocessors, Algorithms, Database Management systems, Operating Systems.
- Good understanding of: Data Structures and Algorithms, OOP
- **Spoken Languages:** Native Arabic, Fluent English, Basic German (A2)

## Relevant Projects

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[Huffman Compression](#): CLI application to compress files using Huffman algorithm. [C++]

[Courses Browser](#): Display a list of courses stored in multiple tables in a database. Allows as-you-type automatic searching across all fields. Used the Materialize library for styling. Hosted on an AWS EC2 instance. [HTML, CSS, JS, PHP, MySQL, [Live](#)]

[Todo App](#): A simple in-browser task manager with full keyboard support for every action. I use this app myself. Used IndexedDB to store data on client side. [[HTML, CSS, JS, [Live](#)]

[Connect 4](#): Demonstrating the Minimax adversarial search algorithm, with and without alpha-beta pruning. You can play against the AI. [Python, pygameui]

[Numerical Methods](#): Two apps, Roots solver, and a linear equations solver [Matlab, code only]

[Java Projects](#): 3 java gui projects demonstrating knowledge and understanding of fundamental OOP concepts such as polymorphism, and design patterns. [Java, JavaFX]

[Data structures and Algorithms](#): Implementing many of them has given me an eye for memory management and understanding pointers, in addition to improving my debugging skills for memory-sensitive apps. [C]

[Pattern Recognition](#): Three machine learning projects: face recognition, image segmentation, and speech emotion recognition. Each folder contains a report, along with data visualizations, about the project. [Python, Jupyter Notebooks, sci-py, Tensorflow, Group work]