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Islam Wagih Emam

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I am an enthusiastic computer science student interested in performance optimization and problem-solving using data structures and algorithms.

Education

Third Year Computer Science student
GPA: 3.49/4.00.

Cairo University

Sep 2019 – June 2023

Selected Projects (for full list please visit GitHub)

- **Car Service:** a web API helps users communicate with car drivers to transport users to any area using java, sprint boot, postman, sqlite3.
- **Router Simulator:** a multithreading application that simulates connection between a router and several devices concurrently using java.
- **An Image Compressor Algorithm:** an images compression algorithm is developed to reduce images' size to less than its original size through building a vector quantizer from scratch using java.
- **CPU Scheduler Library:** a library contains 4 different CPU scheduling algorithms such as SJF, SJRF, FCFS and AGAT to distribute CPU power to processes using java.
- **CLI:** a command-line interpreter that supports commands like pwd, ls, rm, mkdir, cp, cd, cat and more using java.
- **Deadlock Avoidance Simulator:** processes request and release resources and the program will grant a request only if it leaves the system in a safe state, a request is denied if it leaves the system in an unsafe state. Using C++

Awards and Self-Study

- **13th – place:** out of 100 teams at EPCP Qualifications in **2021**, for more info visit [ICPCID](#).
- **18th – place:** out of 100 teams at EPCP Qualifications in **2020**, for more info visit [ICPCID](#).
- Solved **1000+ problems** on various online judges on algorithms and data structures.
- Contributed to Problem Solving Training of FCAI ICPC Community for newcomers.

Extracurricular and Volunteer Work

- **Java Instructor:** I am an instructor and coach for SCCI, a student activity branch at Cairo University.

Programming Languages and Technologies

- Java, C++, Python.
- Algorithms and data structures.
- MySQL, SQL server, Git, GitHub
- Basic Knowledge of (HTML, CSS, JavaScript, Spring boot, postman)