

## Contact:

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## Profile Summary:

Faculty of Computers and Artificial Intelligence at Cairo University (Third Level), CS department.

I am a self-motivated person who is willing to go above and beyond on any project, and to learn valuable skills on my own time. I can find my niche within a group and support everyone's efforts. My 3 years in FCAI involved a lot of team projects. I was always able to recognize my teammates' skills and delegated tasks that fit each person's skills.

## Technical Skills:

- Advanced Data Structures (e.g., red-black tree, interval tree, suffix tree).
- Algorithms (e.g., hashing, backtracking, sorting algorithms, greedy, graphs).
- Well understanding of solid principles and design patterns.
- UML (e.g., class diagram, sequence diagram).
- Designing an ERD and implementing databases using MS SQL Server.
- Dealing with a range of programming languages, including C/C++, C#, Java, HTML, CSS, JavaScript and Python.

## Other Skills:

- Data Compression (Image compression using vector quantization and text compression).
- Computer Graphics (C++).
- High Performance Computing (MPI, C, OpenMP).
- Artificial Intelligence (Building an agent using mini-max or alpha-beta algorithms).

## Projects:

- (HTML, CSS, JavaScript) Web Apps:
  - Portfolio: <https://github.com/AhmedSobhyToR/Portfolio-WebSite>
  - Student Affair Website: <https://github.com/AhmedSobhyToR/Student-Affairs-Website>
  - iPhone Web Page: <https://github.com/AhmedSobhyToR/IphoneWebPage>
- (C#, MS SQL Server, ERD) Supermarket: <https://github.com/AhmedSobhyToR/SuperMarket-System>
- (Python) Connect4: <https://github.com/AhmedSobhyToR/Connect4-Game>
- (Java) Online Payment Service: <https://github.com/AhmedSobhyToR/OnlinePaymentService>