

# Zaynab Yehia

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## EDUCATION

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**Cairo University**

**Fall 2016 - July 2020**

- Bachelor's degree in Computer Science Cairo University.

## PROJECTS

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- **Reversi Game Bot**
  - Python game bot that plays Reversi game.
  - Minimax algorithm and alpha beta pruning are applied to play optimal.
  - **Technologies:** Python; AI
- **2D Shapes Package**
  - Win32 app that contains a drop down list for multiple drawing algorithms.
  - Includes line drawing algorithms , Ellipse drawing algorithms and clipping algorithm.
  - **Technologies:** C++
- **Online Pre-Interview Tester**
  - Application for pre-interview testing for candidates applying on a specific position.
  - The candidate takes several tests for required skills and based on his overall scores he will continue in the process or not.
  - **Technologies:** MVC; Java; Spring Boot; Jsp; Javascript; HTML; CSS
- **Virtual File System**
  - Program simulates hard disk.
  - The user chooses the algorithm he prefers to allocate files into the hard disk.
  - The allocated data is being saved into the database to retrieve it in the start of the program.
  - **Technologies:** C++; OOP
- **Compression Library**
  - Done with multiple algorithms for compressing text and images like adaptive huffman for text and vector quantization for images.
  - **Technologies:** Java;

## ADDITIONAL EXPERIENCE AND ACHIEVEMENTS

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### Programming Competitions (2016 – present):

- Top 25% in ACM Arab Collegiate Programming Contest 2018.
- Top 30% in ACM Egyptian Collegiate Programming Contest 2018.
- Top 19% in ACM FCI-Cairo University Programming Contest 2018
- Top 60% in ACM Egyptian Collegiate Programming Contest 2017.
- Online competitions: [Codeforces](https://codeforces.com/)

## TECHNOLOGIES AND SKILLS

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- C++; Java; HTML; Linux; Eclipse; Problem solving; Data Structures; OOP