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ABOUT ME

I'm a computer science and mathematics major, computer researcher, competitive programmer and a training committee member at Ain Shams university ACM student chapter (acmASCIS) who is passionate about anything computer, programming, researching or mathematics related and looking for an internship.

EDUCATION

- **Ain Shams University, Faculty of Computer and Information Science:** (2013 – 2017) Expected.
  - **Current stage**: Fourth year – Computer science department.
  - **Overall grade**: Very good.

- **El Tawfekya Secondary School:** (2010 – 2013)
  - Mathematics Section.
  - Took the general secondary certificate with 94.5%.

EXPERIANCE

- **Software engineer internship at Microsoft ATLC:**
  My roles were:
  - I had a task in LUIS team, it was to add some new languages in LUIS
  - I had a task in CRIS team, to build a show case demo for Microsoft Cognitive services.

- **Training Committee Member in Ain Shams University ACM student chapter (acmASCIS):**
  My roles were:
  - Teach the basic development using C++ language to the trainees.
  - Help trainees to increase their coding and problem solving skills to be ready for the ACM Locals, Regionals and world Finals Contests.
  - Participate as a problem setter in sessions and contests.

- **Projects committee member in Ain Shams University's open source community (OSC):**
  My roles were:
  - Prepare the technical questions of the interviews.
  - Participate in the Ubuntu release party, teaching people how to install/use Ubuntu.

SKILLS

- **Languages:**
  - C/C++ (Intermediate), C# (Intermediate), Matlab(Intermediate), Python(Intermediate), Java (Novice), X86 Assembly (Novice), MIPS Assembly (Novice), Prolog (Novice), VHDL(Novice), SQL (Intermediate), PL/SQL (Novice).

- **Markup Language:**
  - HTML (Novice).

- **Graphics programming:**
  - SFML Graphic Library (using C++) (Intermediate), OpenGl(Novice), XNA Game Studio (using C#) (Intermediate).

- **Technologies:**
  - Windows form (C++, C#) (Intermediate), Oracle 11g (Novice), Source controls (Novice).

- **Others:**
  - Object Oriented Programming (Intermediate), Object Oriented Design (Intermediate), Data structures (Intermediate), Algorithms' analysis and design (Intermediate), Game development (Intermediate), Artificial intelligence (Intermediate), Design patterns (Intermediate), Machine learning (Intermediate), NLP (Intermediate), Image processing (Intermediate).

- **Soft skills:**
  - Problem Solving, Self-learning, Self-motivate, Reports writing, Ability to work in a group or individually.

- **Interests:**
  - Competitive Programming, Doing mathematics, Reading, Writing technical articles.

PROJECTS

Language Understanding Intelligent Service(LUIS)

- Worked on adding new language to LUIS.
- **Project Specifications**:
  - **Used concepts**: Machine Learning, NLP.
  - **Used Programming Languages**: C#.

Microsoft Cognitive Services Show case Demo

- Prompt LUIS, Speaker & CRIS through building showcase demo.
- **Project Specifications**:
  - **Used Programming Languages**: Python, Tkinter.

Air Foyle

- Basic flights management system.
- **Project Specifications**:

- **Used concepts**: OOP.
- **Used Programming Languages**: C#.
- **Used environments**: Windows form application.

Magnetic Lasso Tool

- It is a livewire or intelligent scissors, used for selecting objects in an image to resize/delete/copy/move them, it's automatically snaps to the objects' boundaries like.
- **Project Specifications**:
  - **Used concepts**: Image processing, Algorithms design, OOP.
  - **Used Programming Languages**: C#.
  - **Used environments**: Windows form application.

Operating System Memory Management

- Memory management module and other kernel features for a port of a Linux kernel.
- **Project Specifications**:
  - **Used concepts**: Operating System.
  - **Used Programming Languages**: C under linux.

MIPS Processor

- Architecture of MIPS processor supporting all MIPS basic assembly instructions using VHDL.
- **Project Specifications**:
  - **Used concepts**: Processor design.
  - **Used Programming Languages**: MIPS assembly, VHDL.

Brain-Box

- A simple game box, XNA Graphics and AI. It is a game box contain 2 games, 2D Chess game and portals 2D. We were trying to simulate chess game and the original Portals 2D.

- **Project Specifications**:
  - **Used concepts**: Game programming, AI, OOP.
  - **Used Programming Languages**: C#.
  - **Used environments**: XNA game engine.

ULTOR

- It's a 2D-platform game. XNA Graphics and simple AI. We were trying to simulate the classical CONTRA game.

- **Project Specifications**:
  - **Used concepts**: Game programming, Graphics
  - **Used Programming Languages**: C#
  - **Used environments**: XNA game engine and Visual Studio.

X-Game

- Simple game box contains 2 classical games packman and bomber man. We were trying to simulate the original Packman and bomber man.

- **Project Specifications**:
  - **Used concepts**: Game programming, Graphics
  - **Used Programming Languages**: C++.
  - **Used environments**: SFML library and Visual Studio.

Simple Malware

- The program causes 2 malicious things:-
  - Delete all exe files in the same directory of the program.
  - Keep creating files in the same directory in an infinite loop.

- **Project Specifications**:
  - **Used concepts**: Real mode addressing,
  - **Used Programming Languages**: X86 Assembly language
  - **Used environments**: Virtual machine, Irvine 16-bit, Visual Studio.

AWARDS

- 1st place in the algorithms project competition.
- 4th place in the algorithms' design and analysis's course practical assessments.
- 1st Rank of assembly contest.
- 7th place in acmASCIS level 1 contest.
- 4th place in ACM local contest (2016).
- 11th place in ACM local contest (2015).
- 12th place in ACM local contest (2014).
- 4th place in FCIS-ASU's junior year summer projects competition.

MORE ABOUT ME

- **LinkedIn.**
- **Github.**
- **Quora.**
- **CodeForces.**
- **Topcoder.**
- **WordPress.**
- **Brilliant.**
- **UVA.**
- **A2OJ.**
- **TypeRacer.**
- **Google Code Jam.**