HASSAN EL-SEOUDY

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A Computer and Communication Engineering Student

Summary

A highly motivated computer engineer seeking to fill the position of a software engineer where I can utilise my skills, passionate to learn more technologies.

hassan-elseoudy.github.io

Interests

Application Development

Building console / GUI applications.

Web Development

Building some websites using (HTML,CSS and JS)

Competitive Programming

Participating in competitive programming rounds.

Artificial Intelligence

Using Python to build (AI: Machine Learning) Apps.

Tools & Technologies

- Java   (★★★★☆)
- Python (★★★☆☆)
- C   (★★★☆☆)
- C#   (★★★☆☆)
- C++   (★★★☆☆)
- MySQL   (★★☆☆☆)
- HTML   (★★★☆☆)
- CSS   (★★★☆☆)

- JSF .   (★★☆☆☆)
- JavaScript (★★☆☆☆)
- Arduino   (★★☆☆☆)
- MATLAB   (★★☆☆☆)
- Ubuntu   (★★☆☆☆)
- Regex   (★★☆☆☆)
- Git/GitHub (★★★☆☆)

Education

2015 - 2020	**Courses in Computer & Communication Engineering** *University of Alexadnria - Faculty of Engineering* GPA (3.29)
2012 - 2015	**High School** *Safwa Language School* (Majored in Mathematics) 96.7%

Work Experience

- **ROBO-TECH** *(OCT 2018 - Present)*
  - Software Engineer

Volunteering Involvement

- **Chairman** - Alexandria ACM Student Chapter. (October 2018 - Present)
- **Head of planning** - Alexandria ACM Student Chapter (April 2018 - September 2018)
- **Activities member** – Alexandria ACM Student Chapter (2017 - January 2018)
- **Head of Media and Marketing** – SSP Society (2016 - 2018)

Projects

Offensive Language Detector (Python)
Reading tweets and detect if it contain any offensive Language or profanity.

8-Puzzle Solver (Python)
This application allows you to view a representation of a range of different graph search algorithms, whilst solving your choice of 8-puzzle problems.

Circus Of Plates (Java)
A game of clown that can hold dropping dishes of different colours on both his hands, each time clown collects 3 dishes of same colour they disappear from stack and player earns a point, player loses when 15 dishes are stacked on a single hand. Game "levels up" to harder level involving faster dishes of more colours each time player gets 5 points, user can pause or save the game to reload it later.

Red-Black Tree Dictionary (Java)
An implementation of a general dictionary that allows efficient insertions, deletions and access to a collection of objects. Here, efficient refers to $O(\lg n)$.

DBMS (Database management system) (Java)
A db management system that executes SQL's main 5 queries (Create, Drop, Select, Insert, Delete) and save data tables into XML files as well as create their schemes for validation, the project also encapsulates Oracle's JDBC's functions to wrap results into object(s) with the class as Table name and attributes represent columns of table.

Vector Based Drawing Application (Java)
Developed a project with most of the MS paint features (draw, colour, move, copy, edit, undo, redo, delete) in addition to dynamic class loading to add new shapes.

Simple Interpreter (C)
Program to read in, verify and calculate mathematical equations and assign them to a variable that can also be used in later calculations, if any error whether an undeclared/assigned variable or in equation format the user is notified their command did not execute and mentions the error.

Pixel Art Maker (HTML+CSS+JS)
This is a simple online pixel art editor to help you make pixel art easily. Pixel Art Maker (PAM) is designed for beginners, and pros who just want to whip something up and share it with friends. If you like making pixel art, and need an online drawing app like this, then hopefully it lives up to your expectations.

Acheivements

- MATE (Marine Advanced Technology Education) International competition 2019 Finalist.
- Rank #2 at MATE Regional competition 2019.
- ECPC (Egyptian Collegiate Programming Contest) 2018 Finalist.
- Rank #2 Over Alexandria, Egypt At Google Hash Code competition 2018.