

# Ahmed Mohamed Ahmed Madbouly

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## CONTACT



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Cairo, Egypt

## QUALIFICATION

### Education:

- Computer Science, 4<sup>th</sup> year.

### Skills:

- C / C++ / C#
- Python
- Java
- Image Processing
- HTML – CSS – JS
- Database
- Photoshop
- Arduino
- Raspberry pi
- Entrepreneurship

### Mobile Programming:

- Android, Xamarin

### Game development tool:

- Unity

## **IDE:**

- **Microsoft Visual Studio, Netbeans, Android Studio, Unity, PyCharm, Code::Blocks. Eclipse, Geany**

## **Languages:**

- **Arabic: Mother Tongue**
- **English: Good spoken and written**

## **FAMILIAR with:**

- **Windows**
- **Linux**

## **Professional experience:**

- **Artificial Intelligence:** Learned all by myself, i have implemented a lot of algorithms in AI field in the context of the CS188 course such as BFS and DFS, and other types of search algorithms as (UCS, A\*), adversarial search (minMax, expectimax), MDPs and CSPs and more.
- **Machine Learning:** Self-taught Learning in this field also, currently taking a machine learning course (Stanford University) and a machine learning specialization (Washington University) and made apps using machine learning using graphlab library.
- **Python programming language:** Learn it all by myself, wrote a lot of scripts and took many courses on it (Python for everyone Specialization on Coursera.com), I also wrote a lot of scripts during my current in progress AI course from Berkeley.
- **Linux OS:** Know how to deal with Linux environment, command line and file system.
- **SQLite:** The basics of working with databases, and how to build a one to many and many to many relationships.
- **JavaScript:** the basics for JS programming
- **HTML5 / CSS3:** the basics for designing a webpage
- **Arduino:** learned on my own basically, made a lot of projects with it using arduino C and Arduino IDE.

## **Projects:**

- **Flappy Bird Game (unity)**
- **One android projects (android studio)**
- **Three android projects (app inventor)**
- **Web search engine based on Google techniques in 1998 (final project of introduction to programming using python)**
- **Implementation for major data structures and algorithms in java efficiently (during algorithms course on coursera – Princeton University)**
- **JavaFX app for E-learning System**
- **Java JFrame for university management system**
- **Windows tools (c# & visual studio 2015): A program that allow for the user to control his USB driver whether read only / Full access , also the program allow to the user the know all information about USB (size , used space , available space , number of folders ,number of files)**
- **Enhanced news map :A JavaScript web based app , built during edx ( CS50 course ) , the app was built using Google maps APIs , it's main idea is that when you click on your city on the map , the app automatically give you the head news in that place from a website that is chosen in the code . The project had database involved also to load the cities into a database, MySQL was used.**
- **C Dictionary: A C based app , built during edx ( CS50 course ) , the app takes a dictionary of words , and then compare another file or single word for misspelling , the app basic idea is to use the fastest data structure , i used tries .**
- **C based Server: A C based app , built during edx ( CS50 course ) , the app manage a server and respond to http requests .**
- **CS50 Finance: A PHP web based app , the app simulate a stock with an actual prices from yahoo finance using the JQuery .**
- **Photo manipulation App: A C based app , built during ( CS50 ) the app takes a PNG image and can make certain effects on it .**
- **Recovery App: A C based app , built during ( CS50 ) , the app takes a corrupted memory card and recover deleted photos from it , basically searching the file for the specific pattern of the image file .**
- **Sudoku solver C++: A code that can solve any Sudoku problem using recursive algorithm.**
- **Wall-E Robot (with voice and face recognition)**
- **RC car**
- **Line Follower Robot using Image Processing**
- **Home Automation**
- **Maze solver Robot**

### **Internships:**

- **MAL [mobile application launchpad] (Google)**
- **InnovEgypt Program (TIEC 2016)**
- **Lean Startup Methodology Training for Startups & SMEs (TIEC)**
- **Mini Maker Diploma (U.S Embassy)**
- **NTL (Machine Learning track)**

### **Hackathon:**

- **IOT Egypt**
- **NASA Space Apps**
- **flat6labs**
- **Code4Youth**
- **MSP Xamarin**
- **Global Game Jam**

### **Activities & Volunteer experience:**

- **MSP Egypt - Technical**
- **IEEE Cairo Student Branch - Technical**
- **TIEC Ambassadors (Innovation Student Ambassador - ISA)**
- **Pixel (Faculty of engineering Helwan university) – maker**
- **InnovEgypt Graduation ceremony 2017 - Organizer**
- **FLL (FIRST LEGO League) - Judge Assistant**

## **Competitions & Achievements:**

- **CS50x coding contest 2017 1<sup>st</sup> place**
- **InnovEgypt 1<sup>st</sup> place**
- **Mecato Line Follower Robot challenge 5<sup>th</sup> place**
- **flat6labs Hackathon 7<sup>th</sup> place**
- **Robocon Azhar 7<sup>th</sup> place**

## **INTERESTS**

- **Problem Solving**
- **Artificial Intelligence**
- **Machine Learning**
- **Robotics**
- **Cyber Security**
- **Android Programming**

- ❖ **Military service Status : Exemption**
- ❖ **Some of my online certificates on this page [goo.gl/ni21qy](https://goo.gl/ni21qy)**
- ❖ **References available upon request.**