

Amr Mohammed AbdulRahman

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Objective

- I aim to find the place where I can apply my **problem solving** skills; those skills show the difference among developers and have a huge impact on the final product. I aim to join a place where business owners in a need for those differences.

Education

- **[2008-2012] Bachelor:** Faculty of Computers and Information Science, Ain-Shams University, Total Grade: **Very Good**, Graduation Project Grade: **Excellent**.
- **[2007-2008] GCSE:** Tabari Sheraton School, **Math Section**, Total Grade: **94%**

Experience

- **[Jul. – Nov. 2012]:** Software Engineer at [Codelab](#)
Projects:
 - **[Jul. – Nov. 2012] SchoolsEcho:** is an online school collaboration system; where the school members can interact, discuss their learning issues and share knowledge and information. (ASP.net)
 - **[Aug. – Sep. 2012] Ensiyab:** is a software system that automates the process of submitting and operating business forms in an organization. (ASP.net)

Technical Skills

Languages

- **Main Knowledge**
 - JavaScript, JQuery, HTML and CSS
 - C and C++
 - C# (ASP.NET)
 - Python (Django)
- **Fair knowledge**
 - Java SE and Objective-C
- **Basic knowledge**
 - Prolog and Assembly(Intel and MIPS)

Concepts

- Algorithms Design and Analysis
- OOP (Object Oriented Programming) and Data Structures
- Parallel Programming (Main concepts and analysis)
- Computational Geometry
- Database Design and Analysis (SQL server)

Achievements & Certificates

- [ACM Regional contest](#), 16th place/59. (2010)
- ACM National contest, 14th place/48. (2010)
- ACM Local Finals contest, 3rd place/25. (2010)
- ACM Local Warm-up contest, 1st place/30. (2010)
- ACM Local Warm-up contest, 2nd place/25. (2009)
- Ain-Shams ACM Chapter, **Proactive Participant** honor certificate. (2010)
- Ain-Shams ACM Training Committee, **Effective Participant** certificate. (2010)
- Ain-Shams ACM Chapter, **Most Helpful** honor certificate. (2009)
- Course projects, **1st place certificate**
 - Data Structures

- Information System
- Object Oriented Programming (Time Remaining Gadget)
- Artificial Intelligence (Connect-4 Game)
- Mathematical Programming (Graph Simulator)

Projects

Graduation Project: Python Cloud IDE (Python, JS, JQ, HTML5 and CSS3):

A full development platform on the cloud, supporting Cloud IDE, Source Control Management and Deployment Functionalities. Initially supporting Python, with Django framework. (Team of 4 members) (Project grade, Excellent)

Content Aware Image Resizing (C#): A program that resizes images using seam carving techniques to keep main objects in the image not affected after resizing, It is also has the ability to erase and freeze objects using brush. ([Know more](#)). (Team of 5 members)

Time Remaining Gadget (Java): It is an advanced reminder, with high usability options and creative ideas were completely considered in designing, like adding *Events* just by writing plain English sentences, making many more reminding options, and recording events as voice memos. It is also designed to work along with Google calendar.(Team of 5 members)

Data Structures package (C++): A simulation of students' registration system that included many Data Structures (Various implementations of Stack, Queue, Lists, and Binary Search Tree with various traversal techniques).(Team of 3 members)

FCIS, Department of Personnel Affairs Database (MS Access 2007): Building a Database that automates Personnel Affairs department data with user-friendly forms that enables employees to easily enter the data and create reports.(Team of 5 members)

RAMBA IDE(C++, C#): Simple IDE that compiles high level language and produce [MIPS](#) code, then assemble this MIPS code to machine code and imports the executable file.(Team of 5 members)

Arithmetic Expression Parser (C++): A parser that evaluates arithmetic expressions and returns its numeric value.(Individual work)

Linear Equation Solver (C++): Smart calculator that solves N linear equations of M variables. Determining whether there exist "No solutions", "Infinity solutions" or "Unique solution" and what is it if existed.(Individual work)

Big Integer Class (C++): A big Integer class that enables C++ developer to work along with big Integers likes those in Java and C#. The class overloads 23 operators for usability. ([Know more](#)). (Individual work)

Connect-4 Game(C#): One player game that applies *Artificial Intelligence* algorithms to enhance and improve the computer behavior against human. (Team of 5 members).

Extracurricular Activities

- **ACM Training Committee Coach and Trainer (2009/2010):** Preparing and presenting multiple sessions:
 - Teaching **Basic Development Concepts** course for 1st year students.
 - Teaching **Basic C++** course for 1st year students.
 - Participated in **Advanced C++** sessions that covered (Complexity analysis, Searching algorithms, Graph algorithms and Math algorithms).
 - Preparing **Problem of the Week:** A weekly ACM-Style problem published on the [acmASCIS](#) site and discussed on the forum to enhance students' skills in problem

	<p>solving and introduce them new techniques.</p> <ul style="list-style-type: none"> ○ Preparing Contest of the Week activity on acmASCIS site: A weekly programming contest held each week to prepare students for official contests like Local, National and Regional contests. And make them able to work with a team and under pressure. <ul style="list-style-type: none"> ● Head of Junior Training Committee (2010/2011): Was responsible of organizing and leading the junior training committee. ● Instructor at Tech Planet center (2011): Worked as an instructor at Tech-Planet center in C Programming and Algorithms track. ● Member of “Sotak wasel” group: A selected group that is responsible for representing our colleagues and delivering their complaints and suggestions to the college stuff and discussing it with them.
Soft Skills	<ul style="list-style-type: none"> ● Self-Learning ● Smart thinking ● Organizational and Leadership skills ● Communication and Presentation skills ● Self-adaptation to with a team and individually
Hobbies and Interests	<ul style="list-style-type: none"> ● Fine Arts and Arabic Calligraphy ● Teaching and presenting technical sessions ● Playing Chess ● Blogging technical and non-technical posts ● Playing Squash
Personal Information	<p>Date of Birth. November, 1st, 1990</p> <p>Nationality. Egyptian</p> <p>Military Status. Exempted</p> <p>Languages. Arabic (Native language), English (V.Good)</p> <p>Marital status. Engaged</p> <p>Blog. Amr Mohammed’s blog</p>
References	<ul style="list-style-type: none"> ● AbdelRahman el Ogail <ul style="list-style-type: none"> ○ Software Development Engineer at Microsoft ○ abdelrahman.ogail@hotmail.com ● Amr Mahdi <ul style="list-style-type: none"> ○ Software Development Engineer Intern at Microsoft ○ amramahdi@gmail.com