

Alaa Shaker

Software Developer

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Education

Graduate
Feb 2009
– Present
The American University in Cairo (AUC) Cairo, Egypt
Master of Science (M.S.), Computer Science
Major: Computer Science – Expected Graduation Date: 2011

Undergraduate
Sep 2004
– Jul 2008
AinShams University Cairo, Egypt
Bachelor of Science (B.S.), Computer and Information Sciences
Major: Computer Science (Computer Sciences Department)
Grade: GPA 3.4/4.0 – Excellent with Honor

High School
Sep 1991
– Jun 2004
B.B.C. International School Cairo, Egypt
General High School Certificate (Thanaweya Amma)
Grade: 99.5% - Math Section

Work Experience

NTP Software
Aug 2008
– Present
C++ Developer www.ntpsoftware.com
• Adding NFS support (Linux clients) to NTP Software QFS® (Quota and File Sentinel), a storage management application that allows organizations to set and enforce policies that control data storage on both servers and filers; originally designed to work on Windows environments only.
• Developed QSD™ (NTP Software QFS® System Dashboard), an application that integrates with QFS® to provide summary information and trends by user, policy, or system across all storage management policies.

ITWorx
Aug 2007
– Sep 2007
Java Software Engineer (Internship) www.itworx.com
• Worked on the “du” Java account, where I learned using Spring and Hibernate frameworks in Java, through the MVC pattern on Java Servlets and MySQL database.

Ractors
Jul 2007
– Aug 2007
PHP & .NET Software Engineer (Internship) www.ractors.com
• Worked on a PHP social networking web application, a bug-tracking system analysis and design, and built an automated web robot.

Smartlabz
Jun 2006
– Aug 2006
ASP.NET Software Engineer (Internship)
• Built a web-application for the stock market and learned more about AJAX, ASP.NET, Oracle database, client-side/server-side web development, and web deployment.

Freelancer
2001
– Present
Graphics Designer, Interior Designer, Painter
• Different jobs for several companies, hotels, individuals and galleries; as Darran L.L.C., Bank Muscat, Grand Hyatt Regency, Intercontinental Oman, Areen Youth Hostels, Hawaii Real Estate Corp., CBN Hawaii, Jim Johnson, Crack and Mohsen's Art Gallery.

Projects

Graduation Project Touchwork: A Multi-touch Applications Development Framework

A development framework used for developing applications for multi-touch interfaces, by processing and handling user-input from multi-modal input devices such as multi-touch screens, and acting as a middle layer between the input device and the user interface. It applies computer vision to provide a wider scope of user input through the usage of different input modes and gestures. Using Touchwork will facilitate having much more intuitive environments, providing countless, creative solutions for human-computer interaction. (C++)

alaashaker.wordpress.com/touchwork



Recent Projects GSync, an application that syncs multiple Microsoft Outlook Calendars with Google Calendars. (C#, Outlook Programming, Google Data API)

More Projects are listed at alaashaker.wordpress.com/undergraduate-projects

Qualifications and Skills

Languages and Technologies

C/C++, C# (.NET), Java

PHP, JavaScript, AJAX, XML, HTML, CSS
ASP.NET, ADO.NET, WebServices

Windows Forms Programming, Assembly
Custom User Controls, WPF, XAML

Databases

Microsoft SQL Server 2000/2005/2008
MySQL, Oracle, Microsoft Access

Concepts and Methodologies

OOP/OOD, SOA, Design Patterns
General Algorithms, Data Structures
Computer Vision, Game Programming
Debugging Techniques, Multithreading
Reflections, Pair Programming/Review
Agile Techniques, Scrum, Source Control

APIs, Libraries and Frameworks

jQuery, CodeIgniter, 960gs, XMPP
Google Data API, Outlook Programming
Joomla, CommunityServer, MATLAB
.NET, GDI+, MFC, STL, Win32 APIs, WTL
Prolog, DirectX SDK, OGRE, PhysX
Spring and Hibernate Frameworks (Java)

IDEs and Operating Systems

Microsoft Visual Studio .NET 2005/2008
VC++ 6.0, Microsoft Visual SourceSafe
Eclipse, NetBeans, Microsoft Dynamics GP

Microsoft Windows 98/XP/Vista
Microsoft Windows Server 2000/2003
Linux (Ubuntu, Red Hat), Mac OS X

Courses Studied

Advanced Artificial Intelligence
Advanced Processor Architecture
Advanced Algorithms and Complexity
Fuzzy Logic, Swarm Intelligence
Image Processing, Neural Networks
Operating Systems, Computer Graphics
Compiler Theory, Distributed Computing
Computer Security, Computer Networks
Theory of Computation, NLP

Presentation, Communication, Time and
Stress Management Skills (by LOGIC)

Microsoft Student to Business Program
(VS.NET 2008, WPF, WCP, WF, Silverlight)

Graphics, Design & Miscellaneous

Adobe Photoshop CS4
Adobe Flash CS4 (+ ActionScript 3.0)
Adobe Dreamweaver CS4
Adobe Flex Builder 3.0 Professional
Macromedia Freehand 11
Corel Suite

Microsoft Office

Courses, Conferences, Workshops and Sessions Given

- Design Patterns (Course), gave two courses in design patterns and best programming practices – 2007 and 2008
- Sharpening your C (Workshop), migration from C++ to C# – 2008
- C++ and Problem Solving (Training), separate sessions on C++ Programming, algorithms, data structures and problem solving for junior students to prepare them to participate in the ACM programming contests – ACM-ICPC Training, 2007 and 2008
- Career Options (Conference), organized an event to help senior students identify the possible career options they have when they graduate; Academic, Development and Hybrid (technical, yet no code) – 2008
- Conquering Your Graduation Project (Session), a session to help senior students go through their graduation projects and the technical and managerial challenges they might face, based on Touchwork, my graduation project – 2008
- Microsoft Technology Day (Conference) and Microsoft Imagine Cup (Booth), helped Microsoft Egypt set up both the conference and the booth in the Faculty of Computers and Information Sciences, AinShams University – 2007 and 2008
- INETA: Technology in Action (Conference), organized a technology-focused event for the INETA association, developed the online-registration website for the conference, designed the publications, posters and nametags and gave two sessions as well – 2007
- ASP.NET AJAX in Action (Session), a that introducing AJAX; first using JavaScript only, then using the ASP.NET AJAX Framework and its ASP.NET AJAX Toolkit – INETA: Technology in Action, 2007
- Debug in Nine (Session), debugging techniques based on the book “Debugging: The Nine Indispensable Rules for Finding Even the Most Elusive Software and Hardware Problems – David J.Agans” – INETA: Technology in Action, 2007
- Student Initiatives Training (Sessions), for committees and members of student initiatives in several universities – 2007 and 2008

Leadership Roles

- President, acmASCIS (ACM Student Chapter) – 2008/2009
- Mentor, faculty students and acmASCIS (ACM Student Chapter) – 2008 – Present
- Committee Head (PubliMedia & IT), FDMC (Future Decision Makers’ Conference) – 2008
- IT and Publications Trainer, Utopia – 2008
- Seminars and Events Coordinator, acmASCIS (ACM Student Chapter) – 2007
- Head of the Organizing Committee, COMPASS (COMPAny Simulation for Students) – 2007
- General Organizing Consultant, IT and Media Supervisor, tshanj – 2007
- Team leader, ACM Programming Contests (ACM-ICPC)
- Project Manager, faculty and course projects, and extracurricular projects
- Event Organizer, several events at college, as TU, TU2, FCIS-Funday, and Welcome Parties
- Team Captain of three teams in Water Polo (ten years), coached a team as well
- Class President and Magazine Editor-In-Chief, at school

Conferences, Events, Programming Contests and Memberships

- ACM International Collegiate Programming Contest (ACM-ICPC), Arab and North Africa Regional Contest (ANARC) – 2007
- ACM Student Member – 2004 till 2008
- Local ACM Programming Contest, AinShams University and the German University in Cairo – 2007
- Egyptian Olympiad in Informatics (EOI), Alexandria, Egypt – 2005
- Middle East Developers Conference (MDC) – 2006 and 2007
- Egyptian Developers Conference (MDC) – 2008
- Microsoft’s Expression Around the Clock – 2007
- SilverKey’s Demo Day – 2007

Honors, Awards and Prizes

- Graduated with Honor from AinShams University – 2008
- Awarded a Certificate of Excellence from ITS GBS for “the outstanding academic achievement and for being one of the top computer science and engineering graduates in Egypt for the year 2008” – 2008
- Microsoft Student to Business Program, awarded and attended a granted course from Microsoft in – 2008
- One of the top five projects in the Image Processing and Computer Networks courses – 2008
- Best projects in the Presentation-skills course – 2008
- Graduation project was sponsored by Microsoft and ITWorx – 2008
- One of the top five projects in the Operating Systems (FOS), Computer Architecture and Organization (Archigos), Programming Logic (Chess), Assembly (Virus) and Computer Graphics courses – 2007
- Received cash awards from the University for my academic standard for three consecutive years – 2005, 2006 and 2007
- Granted an OOP course by the Egyptian Software Engineers Association for developing the best project of the year – 2008
- Received awards as Best Editor-In-Chief, Best Article, Best Graphical Design and Best Magazine from school – 2001
- Sports, best goalie for two consecutive years. Received one gold, two silver, and three bronze medals.
- Arts, received art medals and prizes for several graphic designs, pavement-painting competitions, drawing at school – 2005 to 2002

Hobbies and Interests

- Graphics and Design (logos, letterheads, books/magazines layout, interior/outdoor design, web design, animations).
- Water Polo goalie for ten years (El-Shams Sporting Club).
- Played in the swimming, modern pentathlon and karate teams.
- Blogging, reading, drawing, painting, playing the guitar, and attending musical festivals and concerts.

Languages

Arabic, mother tongue
English, excellent
French, fair

Military Status

Exempted

Blog

<http://alaashaker.wordpress.com/>