

Ahmed Abdelmeged

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Objective

A challenging software development position within a process-oriented team.

Skill Summary

A good command of JAVA, OOP, Design Patterns, Multithreading, RDBMS, SQL, Aspect Oriented Programming. Exposed to Hadoop and Google AppEngine.

Qualification Highlights

- Undertook few outsourcing software projects in automation -- programs operating other programs. Ranked as [superb on VWorker](#).
- Jul 2003: Passed a 9 hours exam at IBM TDC, Cairo. Qualified to work as a software engineer.
- Oct 2006: Devised a number of highly efficient procedures for manipulating packed truth tables. These procedures use only bitwise operations and treat the whole truth table as a single entity.

Experience

Software Development intern, Java, June 2007 – August-2007

GMO, Boston, MA

Worked on a multi-threaded application and a GUI framework.

Teaching/Research Assistant, September 2006 - Present

Northeastern University, Boston, MA

Teaching Assistant, Oct. 2003 - Aug. 2006

Arab Academy for Science and Technology and Maritime Transport, Alexandria, Egypt

Software Engineer, Java, Jul. 2003 - Sep. 2003

Wide Horizons Company, Alexandria, Egypt

Member of a three-person team responsible for one of the company projects.

Software Development Intern, VB, Jun. 2002 - Sep. 2002

Info&Soft Software Company, Alexandria, Egypt

Responsible for developing a spatial query library based on Windows GDI. The position had a research flavor.

Research Associate, June 2001 - August 2001

Alexandria University, Alexandria, Egypt

Responsible for implementing an R* search tree, a multi-dimensional indexing structure, as well as preparation of test data.

Education

PhD Candidate, Computer Science, June 2009

Northeastern University, Boston, MA

GPA: 3.83

M.SC, Computer Science, June 2008 (Grade requirements finished)

Northeastern University, Boston, MA

GPA: 3.83

M.SC, Computer Science (undefended)

Arab Academy for Science and Technology and Maritime Transport, Alexandria, Egypt

GPA: 3.87

B.Sc., Computer Science and Automatic Control, June 2003

Alexandria University, Alexandria, Egypt

GPA: 3.81

Honors

- Jun 2003: Graduated with a distinction with honor grade and was ranked as 7th with puts me among the top 10% of my class.
- Mar 2001: Recommended by the Department to join the national finals qualifying to the IOI (International Olympiads for Informatics).

Publications

- Ahmed Abdelmegeed and Karl Lieberherr [FSCP: A Platform for Crowdsourcing Formal Science](#). Submitted to Web Science'13.
- Ahmed Abdelmegeed and Karl Lieberherr [The Scientific Community Game: A Lens to Focus the Global Brain](#). Submitted to FDG'13.
- Ahmed Abdelmegeed and Karl Lieberherr, [Cache-Based Optimization Aspects](#). submitted to AOSD'11.
- Karl Lieberherr, Ahmed Abdelmegeed, and Bryan Chadwick, [The Specker Challenge Game for Education and Innovation in Constructive Domains](#). Bionetics 2010 Keynote Paper.

- Ahmed Abdelmegeed and Karl Lieberherr, [Abbreviated Path Expressions With Iterated Wild Cards: WYSIWYG Semantics and Efficient Implementations](#). Technical Report June 2010.
- Ahmed Abdelmegeed, Therapon Skotiniotis, and Karl Lieberherr, [Navigating Object Graphs Using Incomplete Meta-Information](#). Technical Report April 2010.
- Ahmed Abdelmegeed, Therapon Skotiniotis, and Karl J. Lieberherr [Controlled Evolution of Adaptive Programs](#). IWPSE-EVOL 2009.
- Ahmed Abdelmegeed, Therapon Skotiniotis, Panagiotis Manolios, and Karl J. Lieberherr [Traversal Graphs: Characterization and Efficient Implementation](#). Technical Report, July 2008.
- Bryan Chadwick, Ahmed Abdelmegeed, Therapon Skotiniotis, and Karl J. Lieberherr [Abstraction of Communication in Traversal-Related Concerns](#). Technical Report, December 2007.
- Ahmed Abdelmegeed and Karl J. Lieberherr [Recursive Adaptive Computations Using Perobject Visitors](#). Student Research Competition - OOPSLA 2007.
- Ahmed Abdelmegeed, Christine D. Hang, Daniel Rinehart, and Karl J. Lieberherr, [Superresolution and P-Optimality in Boolean MAX-CSP Solvers](#). Northeastern University, 2007, January, NU-CCIS-07-01.
- Christine D. Hang, Ahmed Abdelmegeed, Daniel Rinehart, and Karl J. Lieberherr, [The Promise of Polynomial-based Local Search to Boost Boolean MAX-CSP Solvers](#). Proceedings of Fourth International Workshop on Local Search Techniques in Constraint Satisfaction, CP2007, Providence, Rhode Island, September 2007.
- Ahmed Abdelmegeed, Christine D. Hang, Daniel Rinehart, and Karl J. Lieberherr, [The Evergreen Game: The Promise of Polynomials to Boost Boolean MAX-CSP Solvers](#). Northeastern University, 2007, April, NU-CCIS-07-03.