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RESEARCH INTERESTS

Data Structures and Design of Algorithms
Randomized and Approximation Algorithms
Computational Complexity and Coding Theory
Algorithmic Graph Theory
Bioinformatics

EDUCATION

Sharif University of Technology Iran, Tehran, since Sep 2001

B.Sc. in Computer Engineering Degree expected for Summer 2005.
Current cumulative GPA : 15.92/20, major GPA: 17.08/20

Graduate course taken: Advanced Algorithms (this semester)
Relevant course work: Discrete Structures(20/20), Data Structures
and Algorithms (19.4/20), Design and Analysis of Algorithms (19/20),
Probability and Statistics (20/20), Theory of Machines and lan-
guages (19.5/20), Numeric Methods (20/20). GPA: 19.65/20

Shahid Ejei High School Iran, Isfahan, Sep 1997 - Sep 2001

Diploma, Mathematics and Physics Discipline
Part of National Organization for Development of Exceptional Talents
(NODET)

Young Scholars Club Iran, Tehran, Summer 2000

Attending "Iran National Olympiad in Informatics" training camp.
Course work: Graph Theory, Combinatorics, Data Structures and
Algorithms, Fundamentals of Computer Science, Programming.

AWARDS AND HONORS

- **4th Team Rank** together with Sharif Arvand Team, in The First RoboCup American Open, Pittsburgh, PA, USA, April 2003.
- **Accepting** in the entrance examination and beginning the undergraduate studies in Computer Department of Sharif University of Technology, 2001.

- **Silver Medal** in the 10th Iranian Informatics Olympiad, 2000.
- 2nd place in National Academic Contest, 1996.
Remark : The best students of all provinces of Iran participate in this contest. I took the 1st place in the province of Isfahan for three consecutive years.
- Entering the NODET (National Organizations for Development of Exceptional Talents), 1994.

RESEARCH EXPERIENCES

Sharif University of Technology Iran, Tehran, 2004

Research Assistant of Prof. Ghodsi

Area of study: Internet Modeling and Algorithms, Randomized Algorithms, Network flow and Clustering Methods to identify Web Communities.

<http://ada.ce.sharif.edu>

Institute of Theoretical Physics and Mathematics, 2004

Research under supervision of Prof. Tusserkani on Bioinformatics
Joint work with Arash Asadpour and Soheil Mohajer.

Sharif University of Technology Iran, Tehran, 2003

Member of Sharif Arvand RoboCup research group worked on Multi Agent Systems in RoboCup soccer simulation under supervision of Prof. Habibi.

TEACHING EXPERIENCES

Teaching Assistant, Sharif University of Technology Iran, Tehran

- Fall 2004,ce254-*Data Structures and Fundamentals of Algorithms*, Prof.Ghodsi. <https://ce.sharif.edu/courses/ce254>
- Spring 2004,ce354-*Design and Analysis of Algorithms*, Prof.Ghodsi.
- Fall 2003,ce254-*Data Structures and Fundamentals of Algorithms*, Prof.Ghodsi.
- Spring 2003,ce115-*Discrete Structures*, Prof.Tusserkani.
- Fall 2002,ce115-*Discrete Structures*, Prof.Tusserakni.

Responsibilities included designing and grading of the homework and/or exam problems, attending regular problem-solving sessions, occasional lectures, maintaining the web page.

Teaching Assistant, Shahid Beheshti University Iran, Tehran

- Fall 2004, *Theory of Machines and Automata*, Dr. Jaberipur.

Responsibilities included designing and grading of the exam problems, attending problem-solving sessions.

Instructor, Young Scholars Club Iran, Tehran

- 2003-2004 *Teaching in the IOI team training classes.*

Responsibilities included designing problems for national competitions, teaching, creating and grading exams in training camps.

Instructor, Mathematics House Iran, Isfahan

- 2002-2003 *Combinatorics and Graph Theory, Problem Solving*

I taught a research group on Combinatorics including top 20 high school students who had been chosen from different high schools.

<http://mathhouse.org>

Other responsibilities included occasional lectures, advising students for their individual projects.

PROFESSIONAL
EXPERIENCES

- Member of the Scientific Committee for 29th ACM International Collegiate Programming Contest 6th Asian Regional Contest in Iran, 2004. <http://sharif.edu/~acmicpc>
- Member of the National Informatics Olympiad Committee since 2003.
- Coordinator of the National Olympiad in Informatics Summer 2003 Camp.
- Member of the National Informatics Olympiad Students Committee since 2002.
- Member of ACM Student Chapter, SUT, 2002.

TECHNICAL
SKILLS

- Familiar Compilers : C/C++, Java, Delphi, Pascal, L^AT_EX
- Familiar Operating Systems : Linux, Windows, DOS

PUBLICATIONS

- I. Hajirasouliha, A. Akhavan , **Trees, Cars and Parking Lots (An overview on a counting problem)** (*Olympiad Quarterly vol. 16, pp. 57-60, Spring 2003, in Persian*)