sayed Soroush HAJ ZARGARBASHI

PERSONAL DATA

PLACE AND DATE OF BIRTH: Isfahan, Iran | 30 March 1995

ADDRESS: Isfahan University of Technology, Isfahan, Iran

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RESEARCH INTERESTS

• Theoretical Computer Science: Algorithms and Data Structures, Complexity Theory, Approximation Algorithms

• Bioinformatics: System Biology, Computational Biology

• **High Performance Computing:** Parallel Programming, Designing Parallel Algorithms, Distributed Computing

• Mathematics: Graph Theory, Algebraic Graph Theory, Game Theory, Combinatorics, Linear Algebra

EDUCATION

2014 - Current Bachelor of Science in COMPUTER ENGINEERING,

Isfahan University of Tech, Isfahan, Iran

Major: Software Engineering

2014 Diploma in Physics and Mathematics Discipline

Isfahan, Iran GPA: 19.6/20

WORK EXPERIENCE

Current AUG 2016 Research Assistant

MEDICAL IMAGE AND SIGNAL PROCESSING RESEARCH CENTER (MISP)

Isfahan University of Medical Science

Feature Extraction Using Graph Principles on Genetic Experimental Results

to Predict Breast Cancer

Our research consists of topics: Graph Theory, Data Mining, Clustering and Classification,

Programming and ...

May-Aug 2016 **Internship**

Intern at MISP Research Center

Our work was focused on studying, documenting and research on following topics:

- Microarray Data Analysis
- Multiple Sequence Alignment Problem, In the aspects of complexity and approximation algorithms
- Providing environment for distributed programing on MISP Center.

- Medical Image and Signal Processing Research Center
- Department of Advanced Technologies in Medicine, Bioinformatics Research Lab (Under supervision of Dr. M. Sehhati)
- Isfahan University of Tech, ACM Student Chapter (Vise Chair)
- Isfahan Mathematics House

Honors and Awards

ICPC

- Ranked 9th Place in 39th ACM-ICPC West Asia Regionals (Tehran Site)
- Ranked 19th Place in 38th ACM-ICPC West Asia Regionals (Tehran Site)

IEEE |

• Ranked in the top 6% among 2477 teams in international IEEEXtreme 9.0

Other

- Ranked in the top 3% among about 800 teams in the 1st Sharif Code
- Ranked 5th in Sharif Java Challenge (2015)
- Ranked 9th in National Programming Contest (Amirkabir University of Tech)
- Ranked 4th in 14th Kharazmi Festivals (2012 High School)
- Ranked in Top 30 Iranian teams in the Tournoment of Towns (2012 -High School)

TEACHING AND PRESENTATION EXPERIENCE

Lab Instructor | • Advanced Programming - Isfahan University of Tech (2015 - 2016)

Teacher's Assistant | • Algorithm Design - Isfahan University of Tech (2016)

Presentations

- Introduction to Game Theory Isfahan Mathematics House
- Parallel Processing Intro Isfahan Mathematics House
- Big Data Processing using Map-Reduce in Hadoop Isfahan University of Tech - Data Base Class

Instructor | Introduction to Competitive Programming - IUT Spring 2016

RELEVANT COURSES

- · Introduction to Programming
- · Advanced Programming

- Data Structures
- Algorithm Design
- Game Theory (Math Department)
- Automata Theory
- Operating Systems

Been Audience in

- Advanced Graphs (Graduate Course)
- Computational Complexity (Graduate Course)

SKILLS

Programming Languages: C++ , C , Python , R Mathematical Libraries: Sage, NetworkX Bioinformatics Libraries: BioConductor

HPC Libraries: OpenMP, Nvidia CUDA, MPICH2 (MPI)

Type Setting / Word Processing: Mcrosoft Office Operating Systems: Linux, Microsoft Windows

LANGUAGES

ENGLISH: Fluent

PERSIAN: Mothertongue
ARABIC: Basic Knowledge