

Amir Shaikhha

- CONTACT INFORMATION **High Performance Computing Lab.**
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- RESEARCH INTERESTS
- Computer Networks
 - Multimedia & Data Security
 - Distributed Systems
 - High Performance Computing
- EDUCATION
- **Sharif University of Technology**, Tehran, Iran. Sep 2007 - [Expected] June 2011
B.S. in Information Technology, **Current GPA: 18.62/20 (3.98/4)**, **Last Year: 19.21/20 (4/4)** (University and Department Average GPA are **15.21** and **15.69** Respectively)
Thesis: Exact Graph Coloring on Multicore Systems (20/20)
Relevant Courses (GPA: 19.57/20): Introduction to Programming, Advanced Programming, Discrete Structures, Logic Design, Computer Structure & Language, Electrical Circuits, Computer Architecture, Engineering Mathematics, Advanced Topics in Software Engineering, Signals & Systems, Computer Networks, Operating Systems, Data & Network Security, Multimedia Systems.
 - **Shahid Sadooghi High School**, Yazd, Iran. Sep 2003 - June 2007, *Affiliated with the National Organization for the Development of Exceptional Talents (NODET)*
Diploma in Physics and Mathematics Discipline, **GPA: 19.71/20.**
- HONORS AND AWARDS
- Granted admission from *Talented Student Office* of Sharif University of Technology for graduate study.
 - Ranked **1st**, in Cumulative GPA among more than 30 students of the Information Technology, Class of 2011 students, Sharif University of Technology, September 2010.
 - Ranked **85th**, in Iranian National University Entrance Exam among more than 300,000 students, 2007.
 - Ranked **4th**, in Iranian National Practical & Laboratory Student Contest in Computer Subject, 2006.
 - Recognized as talented student in entry exam of NODET among Yazd students for middle and high school, 2000 & 2003.
- PUBLICATIONS
- **A Novel Parallel Algorithm for Exact Graph Coloring**; A. Shaikhha, H. Eslami, E. Totoni, R. Tusserkani, H. Sarbazi-Azad, in preparation, 2011.
 - **A Novel Approach for Selecting Restriction Enzymes in RFLP**; A. Sharifi-Zarchi, A. Shaikhha, H. Eslami, M. A. Amoozegar, in preparation, 2011.
 - **New Results on Hedetniemi's Conjecture: Verification for Larger Graphs**, A. Shaikhha, H. Eslami, E. Totoni, R. Tusserkani, High Performance Computing Center, Institute for Research in Fundamental Sciences (IPM), Technical Report.
- RESEARCH EXPERIENCE
- **Design, Implementation and Analysis of Novel TCP/IP Covert Timing Channels**; Sharif University of Technology; Under supervision of Prof. M. Kharrazi.
 - **Design and Implementation of High-throughput Graph Coloring Algorithms on Multi-core and Multi-processor Systems**; Institute for Research in Fundamental Sciences (IPM); Under supervision of Dr. R. Tusserkani and Prof. H. Sarbazi-Azad.
 - **Modeling and Analyzing Electronic Communications Among Nationwide Organizations**; Sharif University of Technology; Under supervision of Prof. M. Kharrazi.

TEACHING
EXPERIENCE

Teaching Assistant

Sharif University of Technology

- Introduction to Programming; Spring 2008, Fall 2008; Instructor: S. Aliakbarian.
- Advanced Programming; Spring 2009, Fall 2009; Instructor: S. Hassas Yeganeh.
- Advanced Programming; Spring 2010; Instructor: Makan Sepehrifar.
- Advanced Programming; Fall 2010, Spring 2011; Instructor: Sadegh Aliakbary.
- Data Structures and Algorithms; Spring 2009, Spring 2010; Instructor: Ali Sharifi-Zarchi.
- Data Structures and Algorithms; Fall 2010; Instructor: Prof. Mansour Jamzad.
- Computer Structure and Language; Spring 2009; Instructor: Prof. Hamid Sarbazi-Azad.
- Computer Networks; Spring 2010, Fall 2010, Spring 2011; Instructor: Prof. Mehdi Kharrazi.
- Signals & Systems; Fall 2010; Instructor: Prof. H. R. Rabiee.
- Artificial Intelligence; Fall 2010; Instructor: Prof. G. Ghassem-Sani.

Teaching

Sharif University of Technology

- J2ME Programming; Summer 2009, Summer 2010; The course maintained by the [Students Scientific Chapter](#) of Sharif University of Technology.

PROJECTS

- **Design and Implementation of a Web Application for Virtual PCR-RFLP and Finding Maximum Correspondence in Phylogenetic Trees**; Under supervision of Ali Sharifi-Zarchi.
- **Design and Implementation of a Simulator and Assembler for IBM System/370**; Under supervision of Prof. H. Sarbazi-Azad.

ACTIVITIES

- **Student Research Assistant**, High Performance Computing Lab., Institute for Research in Fundamental Sciences (IPM), January 2010 - now.
- **Elected Member** and **Head** of Students Scientific Chapter (SSC), Department of Computer Engineering, Sharif University of Technology, June 2010 - now.
- Organizing Committee Member, IPM Workshop on Cell/BE Programming, Institute for Research in Fundamental Sciences (IPM), April 2010.
- Organizing Committee Member, IPM Workshop on GPU Programming, Institute for Research in Fundamental Sciences (IPM), May 2010.

SKILLS

- **Programming Languages:** C/C++, Pascal, C#, Java(J2SE, J2ME), Perl, Prolog, Assembly(x86, IBM S/370), Verilog, MATLAB, GPGPU Programming with CUDA, Cell BE Programming.
- **Operating Systems:** Linux, Dos, Windows(95/98/NT/2000/XP/Vista/7).
- **Web/DB Technologies:** HTML, CSS, Javascript, PHP, MySQL, ASP.NET, Symfony, J2EE.
- **Typesetting:** \TeX , \LaTeX , Microsoft Word.

HOBBIES

- **Sports:** Ping Pong, Karate(Shito-Ryu).
- **Arts:** Photography, Clip Making(Directing & Editing), Music Mixing.

REFERENCES

- **Prof. Hamid Sarbazi-Azad**, Associate Professor of Sharif University of Technology.
- **Prof. Ahmad Khonsari**, Assistant Professor of University of Tehran.
- **Prof. Mehdi Kharrazi**, Assistant Professor of Sharif University of Technology.

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