

# Amir RAHAFROUZ

## PERSONAL DATA

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BIRTH: 26 Dec. 1992, Isfahan, Iran  
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## EDUCATION

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2011-2016	B.Sc. in Computer Engineering, ISFAHAN UNIVERSITY OF TECHNOLOGY (IUT) GPA:14.5/20 <i>Major: Software Engineering</i>   Thesis: "Modeling the diffusion of public-goods in tumors" Supervisor: Dr. M. H. MANSHAEI
2010-2011	Pre-University Diploma, SADAT HIGH SCHOOL <i>Major: Math-Physics</i>
2007-2010	High School Diploma, SADAT HIGH SCHOOL <i>Major: Math-Physics</i>

## RESEARCH INTERESTS

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I'm intensively interested in interdisciplinary subjects related to:

Computer Networks  
Artificial Intelligence  
Game Theory  
Distributed Systems

## RESEARCH EXPERIENCE

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### Researcher at GTMD (Game Theory and Mechanism Design) Lab:

SEP 2016	<i>B.Sc. Thesis: Modeling the diffusion of public-goods in tumors</i> Mostly, public-good games are analyzed based on population dynamics in general. In this project, diffusion of public- good and motility of players is inspected.
MAY 2016	GTMD Group Meeting <i>Multi-scale Cancer Modeling</i> I presented basic biological concepts that are essential in modeling cancer, and I expounded on my simulation of cancer cells behaviour using the Markov Decision Process.

## WORK EXPERIENCE

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2012-2016	LINUX LAB, IT CENTER, IUT <i>Web Developer, Teacher</i> I did the requirement engineering and development of some of websites in the university. Some of them are: <ul style="list-style-type: none"><li>• <a href="#">Tech. Office of IUT</a></li><li>• <a href="#">Camp Registration System for IUT</a></li><li>• <a href="#">Class Registration System for IUT</a></li><li>• <a href="#">IUT Election System</a>: A system for automating the votings in the IUT, which has been successfully operational from 2013.</li></ul>
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## TEACHING EXPERIENCE

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### Teaching Assistance

FALL 2013	Database Laboratory Instructor I was responsible for teaching lab sessions and providing quizzes, assignments, projects, and the final exam.
FALL 2015	E-Commerce I was responsible for guiding students to find a proper project subject, help them choosing the right framework, tracking their progress, and grading their projects. I also graded assignments and midterm exam.
SPRING 2016	Database Laboratory Instructor I was responsible for teaching lab sessions and providing quizzes, assignments, projects, and the final exam.
SPRING 2016	Computer Networks I I was responsible for teaching TA sessions and designing and grading assignments.
FALL 2016	Information Technology Engineering I'm responsible for designing, teaching, and grading the network programming part of the class. I also help designing weekly assignments.

### Volunteer Teaching

2014-2015	Introduction to Linux LINUX LAB, IT CENTER, IUT I taught freshmen and sophomores basic principles of Linux OS, Bash scripting, computer networking concepts, and basic programming and design patterns.
2015-2016	Web Development SCIENTIFIC ASSOCIATION, ECE, IUT I taught students full stack web development. I introduced HTML, CSS, JS, MVC, PHP (Laravel), configuring Apache web server, Nginx. I assigned specific subjects to students to present in the class for better engagement.

## ORGANIZATIONS

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- Scientific Association, ECE, IUT: 2013-2014 *elected member of the department*
- University Guild, IUT: 2014-2015 *elected member of the university*

## HONORS

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2008	Certificate from NIIT in OO Application Development with "Excellent" mark
2011	Ranked in the top 0.8% (99.2 percentile) among 252,000 participants in the Nationwide University Entrance Exam, also known as Concours (Math-Physics)
2013	Honored by IUT President for contribution to University Webometric Rank improvement (While I was working at Linlab, IT Center, IUT)
2016	Ranked in the top 1% (99 percentile) among 15,000 participants in the "Master of Computer Engineering (AI)" nationwide entrance exam , Iran, 2016

## LANGUAGES

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PERSIAN: Mothertongue  
ENGLISH: TOEFL 95 (R:24, L:22, S:23, W:26)  
GRE: Q:166 , V:143, W: 3.5  
GERMAN: Beginner (A1)

## SKILLS

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Proficient	PYTHON, C, C++, JAVA, SQL, PHP (DRUPAL, LARAVEL), HTML, CSS, LINUX, GIT
Experienced	L <sup>A</sup> T <sub>E</sub> X, JAVASCRIPT, VIRTUALIZATION, CCNA/CCNP, PHOTOSHOP
Basic Knowledge	GROOVY, GRAILS, RUBY, OPENSTACK, HADOOP, ANGULARJS, REACTJS, AVR(CODEVISION), ANDROID(JAVA), OPENHAB (OPENSOURCE BMS), APACHE SOLR, ELASTICSEARCH, TWEEN-MAX

## REFERENCES

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Dr. Mohammad Hossein Manshaei Assistant Professor Electrical and Computer Engineering Department Isfahan University of Technology Email : manshaei@cc.iut.ac.ir	Dr. Masoud Reza Hashemi Associate Professor Electrical and Computer Engineering Department Isfahan University of Technology Email: hashemim@cc.iut.ac.ir
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