

OMID FAKOURFAR

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RESEARCH INTERESTS

- Social Network Analysis
- Human Computer Interaction
- Database Systems
- Social Computing

EDUCATION

- **Amirkabir University of Technology (Tehran Polytechnic)**

B.Sc. in Information Technology Engineering

2010 – 2014 (Expected)

GPA: 16.85/20 (Last 2 years: 17.60/20)

Selected Coursework (GPA: 18.60/20):

Principles of Database Design, Internet Engineering, Software Engineering I, Computer Networks I, Research Method & Report Writings, Design of Algorithms, Data Structures & Algorithms, Advanced Programming, Engineering Statistics

Undergraduate Thesis Advisor: Asst. Prof. Bahador Bakhshi

- **Alborz Educational Center, Karaj, Iran**

Mathematics & Physics Diploma

2006 - 2010

GPA: 19.69/20

HONORS AND AWARDS

- Eligible for applying to continue my education in the **Masters' Program at the Department of Computer Engineering and Information Technology (CEIT)** without taking the “National Entrance Exam for Graduate Schools”, as a reward of high academic records. – **2013**
- **Appreciated for Extracurricular Leadership** from the administration of CEIT department. – **2013**
- **Ranked top 0.7%** in the National Entrance Exam among all Iranian Students in Math. & Physics. – **2010**
- **Ranked top 0.2%** in the National Entrance Exam among all Iranian Students in Foreign Languages. – **2010**

RESEARCH EXPERIENCE

- **Research Intern, CSRI** Summer 2013
 - Analyzed the core features and technics used in interest-matching social networks.
 - Researched and reported “*The impacts of social networks on societies*”.

TEACHING EXPERIENCE

- **Teaching Assistant, Amirkabir University of Technology**
 - **Principles of Database Design**, Dr. Khadivi Fall 2013
Responsibilities included giving lectures, preparing the homework and projects, and grading.
 - **Advanced Computer Programming**, Dr. Nourhosseini Spring 2013
Responsibilities included preparing the homework and projects, and grading.

- **Instructor, Students' Scientific Chapter, Amirkabir University of Technology**
 - **Basic Web Programming** Fall 2013
An introduction to web programming with HTML & CSS for the freshmen.

EXTRACURRICULAR ACTIVITIES

- **Elected** as a member of the **Students' Scientific Chapter**, CEIT Department, Amirkabir University of Technology (Tehran Polytechnic) – 2013
- **Chairman** of the **Students' Scientific Chapter**, CEIT Department – 2013
 - Executive Administrator of the Students' Committee of the *Iran MobiCode* Contest
 - Executive Director of the *1st National Programming Contest for High School Students*
 - Executive Director of the *5th Amirkabir Linux Festival*
 - Executive Team Member of two *Startup Weekend Tehran* events
- **Elected** as a member of the **Students Community (Guild Council)**, CEIT Department – 2012 & 2011
- **Free Online Courses**
 - Human Computer Interaction, University of California San Diego
 - Social Network Analysis, University of Michigan
 - Introduction to Databases, Stanford University
 - Design & Analysis of Algorithms, Stanford University

ACADEMIC COURSE PROJECTS

- **Internet Engineering**
 - Design & implementation of a graphical notebook web application
HTML5, CSS, PHP, JavaScript, jQuery UI, MySQL
 - Implementation of several XML parsers
HTML, CSS, JavaScript
- **Database Design Lab**
 - Technical presentation and a live demo on OLAP and Data Warehousing
- **Principles of Database Design**
 - Design and implementation of a relational database for an airline
MySQL
 - Design and implementation of a social movie archive software, with a series of recommendation features
Java, Neo4j Database, Cypher query language
 - Developed a research paper on Neo4j Graph Database
- **E-Commerce**
 - Developed a business plan for a freelancing website, entitled "Time is Gold!"
- **Research Method and Report Writing**
 - Technical presentation and report on Human-Computer Interaction
- **Computer Networks I**
 - Implementation of a multi-threaded web server
Java
 - Implementation of an HTTP & HTTPS proxy server
Java
- **Design and Analysis of Algorithms**
 - Implementation of a java application to find the shortest route for a point robot using Visibility Graph and Dijkstra algorithm
Java
- **Information Technology Project Control**
 - Defined a project (a bookseller website) with different scenarios, created related documents, Work Breakdown Structure (WBS) and allocated resources via Microsoft Project software.

COMPUTER SKILLS

- **Programming and scripting languages:**
 - **Experienced** in Java, SQL, HTML, CSS, JavaScript, XML
 - **Familiar** with C, Python, HTML5, XPath, PHP, Ajax, jQuery, Assembly x86, VHDL
- **Database Management Systems:** MySQL, MongoDB, Neo4j
- **Softwares:** Gephi, NetLogo, ModelSim, PSpice
- **Typesetting:** Microsoft Word, LaTeX

LANGUAGE SKILLS

- **Farsi (Persian):** Native
- **English:** Fluent
 - **TOEFL iBT** (April 2013): **109/120**
Reading 29/30, Listening 28/30, Speaking 23/30, Writing 29/30
 - **GRE General** (October 2013):
Quantitative 166/170, Verbal 152/170, Analytical Writing 4.0/6.0
- **Arabic:** Familiar

REFERENCES

- **Prof. Hossein Pedram**
Associate Professor of Computer Engineering & IT Department, Amirkabir University of Technology
Email: pedram@aut.ac.ir
- **Prof. Shahram Khadivi**
Assistant Professor of Computer Engineering & IT Department, Amirkabir University of Technology
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- **Prof. Bahador Bakhshi**
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