

SAJJAD GHOLAMI

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RESEARCH INTERESTS

- Artificial Intelligence
- Machine Learning
- Neural Networks
- Deep Learning

EDUCATION

- **Amirkabir University of Technology (Tehran Polytechnic), Tehran**
(Top 150 universities in the field of Computer Science)
B.Sc. in Software Engineering 2010-2014 (Expected)
GPA: 17.26/20 (Last 2 years: 18.28/20)

Selected Coursework (GPA: 18.45/20):

Data Mining, Internet Engineering, MultiMedia Systems, Information Retrieval, Principles of Database Design, Software Engineering I, Design of Programming Languages, Computer Networks I, Research Methodology & Report Writings, Operating Systems, Design of Algorithms, Computer Architecture, Electronic Circuits, Theory of Machines and Languages, Electric Circuits, Logic Circuits, Data Structure, Machine Language Programming, Advanced Programming.

Elective Courses: Statistical Machine Learning (Graduate Level - ongoing), Data Mining

- **NODET** Highschool, National Organization for Development of Exceptional Talents, Mashhad, Iran,
Diploma in Mathematics & Physics 2006-2010
GPA: 18.15/20

HONORS AND AWARDS

- Eligible for applying to continue 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 having high total GPA, 2013
- Amirkabir Artificial Intelligence Conference (AAIC) certificate from Amirkabir University of Technology, 2013
- Ranked top 0.3% in the National Entrance Exam among all Iranian Students in Math. & Physics. 2010
- Network+ Certificate from Amirkabir University of Technology, 2012
- Cloud computing certificate from Amirkabir University of Technology, 2012
- Ranked 5th in AUTRONIC (national competition of electronic circuits design), 2012

PUBLICATIONS

- M. Pezeshki, **S. Gholami**, A. Nickabadi, "Distinction between features extracted using Deep Belief Networks", is submitted to ICLR2014.

RESEARCH EXPERIENCE

Research Intern

at Cyber Space Research Institute (CSRI)

summer 2013

- Analyzed technical, cultural, and social features and management strategies used in social networks.
- Implementation of an innovational design of social networks (anonymous social network) and evaluating it with standard criteria.

Researcher

at Research Center of Dr. Shariati hospital

2012

- Research on the solutions to improve the surgeons' accuracy in surgery rooms with implementing a novel healthcare system.

TEACHING EXPERIENCE

Teaching Assistant

at Amirkabir University of Technology

- **Programming Languages** , Prof. Fallah Fall 2013
Responsibilities included giving lectures and grading.
- **Computer Systems Fundamentals** , Prof. Shahreza Spring 2013
Responsibilities included giving lectures, preparing the homework, and grading.
- **Design of Algorithms** , Prof. Bagheri Spring 2013
Responsibilities included giving lectures, preparing the homework and projects, and grading.
- **Machine Language Programming** , Prof. Shahreza Fall 2012
Responsibilities included giving lectures, preparing the homework and projects, and grading.

Teacher

at State Exemplary School of Emam Sadeq

- Introduction to Programming, *C++ Language* 2013
For second-year highschool students
- Introduction to Advanced Programming and Algorithm Design, *Java Language* 2013
For third-year highschool students

TOP ACADEMIC COURSE PROJECTS

- **Information Retrieval**
AUT-Engine: Implementing a static search engine using both traditional Tf-idf method and Semantic Hashing for content-based document retrieval. (Java & Matlab), [Technical Report]
- **Database Systems**
Social Network: Design and Implementation of a social network based on Neo4j (storing relations and graph based information) & MongoDB (storing text based information) (Java, Neo4j, MongoDB)
- **Programming Languages**
Developing an interpreter using ML language (using OCaml to implement lex, yacc codes)
- **Design of Algorithms**
Implementing a robot path finder using Dijkstra algorithm on the visibility graph of environment. (Java)
MxQuadTree (C++)
- **Machine Language**
Developing a previously dominant algorithm for the encryption of electronic data called DES. (Mips assembly language)
Implementing Ackermann Function and Analog to Digital Convertor. (Mips assembly language)

- **Advanced Programming**

RoboKill: Implementing a simple game named RoboKill(Java)

OTHER SCIENTIFIC ACTIVITIES

- Neural Networks for Machine Learning (Online Course, by prof. Hinton, University of Toronto)
- Machine Learning (Online Course, by prof. Ng, Stanford University)

TECHNICAL SKILLS

- **Programming Languages & Script Languages**

Professional in: Java, .NET languages (C#, ASP, WPF), Matlab, HTML5, CSS3, PHP, JavaEE, Mips assembly

Familiar with: X86 assembly, Android programming

- **Database Systems**

Professional in: SQL (MySQL, SqlServer), Neo4j, MongoDB

Familiar with: Hadoop, HBase

- **Frameworks & Tools**

Professional in: Weka, Octave, NetBeans, Eclipse, Microsoft Visual Studio, Microsoft SQL server, Microsoft Office programs(word, pp, excel, access), L^AT_EX

- **Operating Systems**

Professional in: Windows, Windows server, Ubuntu

Familiar with: Mac, Suse

LANGUAGES

- **Persian:** Native

- **English :** Professional in Understanding Computer Science context

TOEFL score: 90 (Reading:24, Listening:22, Speaking:19, Writing:25)

GRE score: Quantitative: 167, Verbal: 139, Writing: 2.5

REFERENCES

- Professor M.Hassan Shirali-Shahreza

Computer Science Department, Amirkabir University of Technology

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- Professor Ahmad Nickabadi

Computer Engineering and IT Department, Amirkabir University of Technology

Email: nickabadi@aut.ac.ir

- Professor Alireza Bagheri

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