Mohammad Reza Ghaeini

| CONTACT INFORMATION | Department Of Computer Engineering And Information Technology Amirkabir University Of Technology | *Phone:* (+98937) 188-1112 *E-mail:* mr.ghaeini@aut.ac.ir *Homepage:* www.ceit.aut.ac.ir/∼ghaeini |

RESEARCH INTERESTS

- Natural Language Processing
- Data Mining
- Machine Learning
- Artificial Intelligence

EDUCATION

Amirkabir University Of Technology, Tehran, Iran

B.Sc., Computer Engineering, September 2010 (expected graduation date: June 2014)
- GPA: $18.27/20$ (*Ranked* 3rd)   **Last year GPA: 19.70/20**
- GPA (Expertise Courses): 19.44/20

Alavi High School, Tehran, Iran

Diploma In Mathematics & Physics, September 2006 - May 2010
- GPA: 19.2/20

PUBLICATIONS

M.R. Ghaeini. "Intrinsic Author Identification Using Modified Weighted KNN", 2013.

M.R. Ghaeini, and S.M.R. Mirzababaei. "Linear Complexity Sort Algorithm". Archives Des Science Journal, V.66, No.5, 2013.

M.R. Ghaeini, and S.M.R. Mirzababaei. "Efficient Multiple Search Tree". ETRI Journal, 2013. (Under view publication)

Notable Coursework & Technical Reports (Most in Persian)
- **M.R. Ghaeini**. "A **Graphical Survey** for **plagiarism detection** algorithms, methods, tools and corpora". under supervision of Prof. S. Shiry Ghidary.   **December,2012**
- **M.R. Ghaeini**. "A New Model for Credit Card **Fraud Detectio**n Based on **Artificial Immune System**".   **December,2012**
- **M.R. Ghaeini**, S. Sadeghi. Technical report for implementing a **static search engine**: Algorithms, methods and reason of their usage, literature reviews for "Information Retrieval Systems course, Tehran, Iran.   **June,2013**
- **M.R. Ghaeini**, S. Mehri. "**Image Reconstruction** using **Evolutionary Algorithms**, literature reviews for "Artificial Intelligence" course, Tehran, Iran.   **June,2013**
- **M.R. Ghaeini**, S. Gholami. "Inspection of a **NoSQL Database**: Neo4j", literature reviews for "Database Design course, Tehran, Iran.   **December,2012**

HONORS AND AWARDS

- Ranked as 3rd in PAN competition in "Author Identification" task (AUC).   **September,2013**
  Best method for Spanish language (**noticeable difference** with second place method)
  Second place method for english language with **very little difference** from first place method.

- **Selected work** to be included in **PAN Lab poster** in CLEF 2013. **July,2013**
- **Juror** of Fraud Detection task in AI competition of Amirkabir university **October,2013**
- Selected as a member of **National Olympiad in Computer Engineering** team of Amirkabir University of Technology as a result of outstanding performance. **January,2013**
- Ranked 4th among more than 100 undergraduate students in Computer Engineering Department, Amirkabir University of Technology, Tehran, Iran. **January,2013**
- Eligible to choose **second major** due to outstanding performance. **September,2012**
- Awarded honorary direct admission to graduate school (M.Sc.) of Computer Engineering, **Sharif University of Technology**, without taking the national entrance exam for graduate schools as a reward of high academic records and achievements. **November,2013**
- Awarded honorary direct admission to graduate school (M.Sc.) of Computer Engineering, **Amirkabir University of Technology**, without taking the national entrance exam for graduate schools as a reward of high academic records and achievements. **October,2013**
- Awarded the **Outstanding Student** title by the head of Computer Engineering Department, Amirkabir University of Technology.
- Ranked as top **0.2%** among **more than 450,000** participants in the National University Entrance exam in Engineering and Applied Mathematics. **August,2010**

ACADEMIC
EXPERIENCES

Research
- Researching about Text Mining and Plagiarism Detection **February,2012 - present**
- Researching about Opinion Extraction **October,2013 - present**

Teaching Assistant
- **Artificial Intelligence**: **September,2013 - January,2014**
  Responsibilities included organization of teaching assistants, preparing and managing homework, projects, giving lectures and grading.
- **Database**: **September,2013 - January,2014**
  Responsibilities included managing homework & projects
- **Design of Algorithm**: **February - June,2013**
  Responsibilities included organization of teaching assistants, preparing and managing homework, projects, giving lectures and grading.
- **Computer Architecture**: **February - June,2013**
  Responsibilities included preparing and managing homework and grading.

Study Group Coordination
- **Machine Learning: A Probabilistic Perspective** **November,2012**

LECTURES AND
PRESENTATIONS

Amirkabir University of Technology, Tehran, Iran.
- Oral Presentation of "**Fraud Detection**: History, algorithms and a new method based on Artificial Immune System", Amirkabir University of Technology, Tehran, Iran. **December,2012**

PROJECTS

- Author Identifier **Spring,2013**
- Plagiarism Detector **Fall,2012 - present**
- Opinion Extractor **Fall,2013 - present**
- Static Search Engine **Spring,2013**
- Picture Reconstructor by Modified Genetic Algorithm **Spring,2013**

ONLINE EDUCATION
- **Machine Learning**, Andrew Ng.(Stanford University)
- **Probabilistic Graphical Models**, Daphne Koller.(Stanford University)
- **Web Intelligence and Big Data**, Gautam Shroff.(Indian Institute of Technology Delhi)
- **Natural Language Processing**, Dan Jurafsky and Christopher Manning.(Stanford University)

WORK
EXPERIENCES

Internship, Bitarts Company, Tehran, Iran.   **June,2013 - present**
Core Banking: We develop a large scale software in this group. Whole of a great company work on this software and in this case we must have a great cooperation with others.

SKILLS
- **Programming**: C++, JAVA, C#(Familiar), JAVA Script(Familiar),, Ml (Familiar), Ocaml (Familiar), Assembly (Familiar), Python (Familiar), Visual Basic, Bash Scripting.
- **Tools/Libraries**: Weka, Regular Expression, MATLAB, Octave.
- **Databases**: MySQL, MongoDB, Neo4j, InfoGrid.
- **Typesetting**: LaTeX, Word, OpenOffice, Pages.
- **Languages:**: English(Fluent), Persian(Native), Arabic(Limited working proficiency)

PROFESSIONAL
MEMBERSHIP

Member of Computer Society of Iran. **(CSI)**   **January,2012 - present**

TEST SCORES
- **TOEFL iBT** (September,2013): 82 / 120
  Reading (18/30), Listening (22/30), Speaking (22/30), Writing (20/30).
- **GRE General** (November,2013):
  Quantitative (165/170), Analytical Writing (2.5/6.0), Verbal (134/170).

HOBBIES
- Swimming & Basketball.
- Philosophy & Psychology.
- Hanging out with my friends.

REFERENCES
- ***Professor Saeed Shiry Ghidary***
  Email: shiry@aut.ac.ir   Homepage: http://ceit.aut.ac.ir/∼shiry
- ***Professor Mohammad Mahdi Ebadzade***
  Email: ebadzadeh@aut.ac.ir   Homepage: http://ceit.aut.ac.ir/∼ebadzadeh
- ***Professor Ali Reza Bagheri***
  Email: ar_bagheri@aut.ac.ir   Homepage: http://ceit.aut.ac.ir/∼bagheri
- ***Professor Hamid Reza Zarandi***
  Email: h_zarandi@aut.ac.ir   Homepage: http://www.aut.ac.ir/h_zarandi
- ***Professor Mohammad Kazem Akbari***
  Email: akbarif@aut.ac.ir