

# Mohsen Zakeri

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## Objective

- Starting PhD program in Fall 2015

## Research Interests

- Bioinformatics
- Machine Learning
- Artificial Intelligence
- Algorithms
- Biology

## Education

### **B.SC. IN COMPUTER ENGINEERING | 2011-2015(EXPECTED) | SCHOOL OF ELECTRICAL AND COMPUTER ENGINEERING OF THE UNIVERSITY OF TEHRAN**

- Major: Software Engineering
- GPA: 17.63/20 (up to now)
- Relevant Courses: Design and Analysis of Algorithms (18.1/20), Artificial Intelligence (18.3/20), Physiology (20/20), Engineering Mathematics(19.25/20)

### **HIGH SCHOOL DIPLOMA | 2007-2011 | ALLAME HELLI HIGH SCHOOL, UNDER THE SUPERVISION OF NODET (NATIONAL ORGANIZATION FOR DEVELOPING EXCEPTIONAL TALENTS)**

- Major: Mathematics and Physics
- GPA: 19.58/20

## Honors & Awards

- Ranked 2<sup>nd</sup> in terms of cumulative GPA among students of computer engineering, 2011 beginners, University of Tehran
- Awarded fellowship of M.Sc. program of University of Tehran as a talented student (2014)
- Ranked 157<sup>th</sup> among more than 300,000 participants in **Iranian Nationwide University Entrance Exam**, Iran (2011)
- Ranked 17<sup>th</sup> in **Iranian Nationwide University Entrance Exam for M.Sc. degree** in Artificial Intelligence, Iran (2015)
- Ranked 22<sup>nd</sup> in **Iranian Nationwide University Entrance Exam for M.Sc. degree** in Software Engineering, Iran (2015)
- Semi-finalist in Iranian National Olympiad of Informatics at Young Scholars Club, Iran (2008, 2009)
- Member of National Organization for Developing Exceptional Talents (**NODET**), Iran (2004-2011)
- Ranked 1<sup>st</sup> among participants who applied for software engineering in **Islamic Azad University Entrance Exam**, Iran (2011)
- Ranked 5<sup>th</sup> among participants who applied for pure mathematics in **Islamic Azad University Entrance Exam**, Iran (2010)

## Teaching Experiences

### TEACHING ASSISTANT IN FOLLOWING COURSES

- Artificial Intelligence ([Prof. Moradi](#)) Spring 2014, Fall 2014  
Designing computer assignments and quizzes and responsible for holding TA sessions
- Advanced Programming ([Prof. Khosravi](#)) Fall 2014, Spring 2015  
Designing computer assignments and responsible for holding TA sessions
- Electronics I ([Prof. Sanaee](#)) Spring 2014  
Grading assignments
- Differential Equations & Boundary Value Problems ([Prof. Nasehpour](#)) Spring 2013  
Responsible for holding TA sessions

### ADVISOR AT HIGHSCHOOL

- Advisor of the students of "Allame heli" high school who were about to take university entrance exam Spring 2012

### MATHEMATICS TUTOR

- Tutor of mathematic courses for high school students 2012

## Research Experiences

- Working alongside **Expert Finding** project (Implementing different methods of expert finding such as Document-Based and Venue-Based methods), final thesis of master of science students, Intelligence Information Systems laboratory, supervised by [Prof. Shakery](#)

## Course Works

### UNIVERSITY OF TEHRAN

- Design & Analysis of Algorithms (18.1/20), Artificial Intelligence (18.3/20), Physiology (20/20), Engineering Mathematics(19.25/20), Advanced Programming(18/20), Theory of Machine Languages and Automata(19/20), Design & Implementation of Compilers(18.5/20), Internet Engineering(20/20), Database Design(16.3/20), Computer Architecture(18.4/20), Calculus I (19.75/20). Calculus II (19.5/20), Differential Equations (18.75/20), Electronics I (19.34/20), Engineering Probability and Statistics (15.8/20), Signals and Systems(15.9/20)

### ONLICE COURSE

- Introduction to Biology – The Secret of Life provided by **Massachusetts Institute of Technology** through **edx**

## Course Projects

- Design and implementation of a **web based social network** for the purpose of finding private teachers , using Rubi on Rails, Internet Engineering course (Spring 2014)
- Design and implementation of a system for saving and sending important messages of the administration of the faculty, using C#, System Design and Analysis course (Spring 2014)
- Design and implementation of a **compiler** for a programming language supporting polymorphism, using Java and Antlr, Design and Implementation of Compiler course (Fall 2013)
- Implementation of PAC-MAN Game, using Python, Artificial Intelligence course (Fall 2013)
- Implementation of Othello Game, using Python, Artificial Intelligence Course (Fall 2013)
- Design and implementation of an object oriented system for posting messages and different properties of a social network (similar to **Twitter**), using C++, Advance Programming course (Spring 2012)
- Design and implementation of a multi-thread schema for memory management of a shared memory, using C++, Operating System course (Spring 2013)

- Design and implementation of a **search engine** on text files with indexes such as B+ tree, using Java, Data Structures course (Fall 2012)
- Design and implementation of a multi-cycle CPU, using Verilog and Quartus, Computer Architecture course (Spring 2013)
- Design and implementation of a pipe-line CPU, using Verilog and Quartus, Computer Architecture course (Spring 2013)
- Design and implementation of a system for creating and saving messages (like SMS), hardware and Software design, using CodeVision AVR, Microprocessor course (Fall 2013)

## Test Scores

- **TOEFL** (November 2014): Internet-Based Test **100/120**  
*Reading (25/30), Listening (26/30), Speaking (24/30), Writing (25/30)*
- **GRE** (November 2014): Internet-Based General Test  
*Verbal Reasoning (152/170 – 54%), Quantitative Reasoning (170/170 – 98%), Analytical Writing (3.5/6 – 38%)*

## Skills

- Programming Languages: in C/C++, Java, C#, Python, Rubi, Verilog, ML
- Web/DB Technologies: Rubi on Rails, MySQL, HTML, Java-script, CSS
- Tools: MATLAB, Altera Quartus, Antlr, CodeVision AVR
- Operating Systems: Windows, Linux

## Language Proficiency

- Persian (native)
- English (fluent)
- Arabic (familiar)
- German (basic knowledge)
- French (basic knowledge)

## Activities

- Member of summer reception team of **IAESTE** Iran (International Association for the Exchange of Students for Technical Experiences) (Summer 2014)
- Head of **Free Discussion** (gathering held every week with the purpose of Speaking in English about different topics) in College of Engineering of University of Tehran
- Member of the Association of Communication with Schools of the college of Engineering of the University of Tehran, responsible for holding the **Open Day** of the college (Summer 2013)
- Member of **theatre group** of University of Tehran (Summer 2012)