

Mehrnaz Ayazi

Amirkabir University of technology

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EDUCATION

- **Amirkabir university of technology (sept2014-present)**

Bs. in Computer Engineering,

GPA (up to now): 17.05/20

- **Farzanegan 1 High School(2010-2014)**

high school diploma in mathematics

Affiliated with the National Organization for the Development of Exceptional Talents (NODET).

GPA: 19.5/20

- **AltonTech Company R&D section(summer 2017)**

attended courses discussing IOT concepts

- **CafeBazaar Company summer camp(summer 2018)**

RELATED ATTENDED COURSES

- | | |
|---|--|
| • Principles of Computer & Prog.
(19.5/20) | • Research & Technical
Presentation(18.75/20) |
| • Discrete Mathematics (16.5/20) | • Elementary Number Theory(18.2/20) |
| • System Analysis & Design (17/20) | • Fundamentals Of Secure
Computing(16.8/20) |
| • Principles of Database
Design(19.12/20) | • Microprocessor & Assembly
Language(20/20) |
| • Signals & Systems(18.03/20) | • Engineering Economics(16.68/20) |
| • Design of Algorithms (19.36/20) | • Engineering Statistics (17.5/20) |

HONORS AND AWARDS

- Ranked top 0.004 in the Nationwide University Entrance Exam among all students in Mathematics and physics (approximately 250,000), 2014
- Computer Science and Mathematics Olympiad 2011 Ranked top 250, National Organization for Development of Exceptional Talents (Olympiad Committee), Iran

- Best student Project in mathematics in Farzanegan 1 high school(2012)

TEACHING EXPERIENCE

Teaching Assistant

- Principle of computer and programming ,Mr. Bahman Pourvatan
- Data Struct. & Algorithms ,Dr. Mehdi Dehghan TakhtFooladi
- discrete mathematics, Dr. Mehran Soleiman Fallah
- Design of Algorithms ,Dr. Seyed Rasoul Mousavi

RESEARCH INTERESTS

- Design and Analysis of Algorithms
- Theoretical Computer Science
- Graph Theory
- Game Theory
- Combinatorics

TECHNICAL SKILLS

Programming & Markup/Scripting Languages

- C(expert)
- goLang(familiar)
- Java(expert)
- shell scripting
- assembly(AVR family)(expert)
- HTML(familiar)
- Python(expert)
- JavaScript(familiar)
- C++(familiar)

HDLs

- VHDL(expert)
- Verilog (familiar)

Typesetting

- L^AT_EX

Database management systems

- Mongo DB
- MySQL
- Microsoft SQL server

Miscellaneous

- ModelSim
- Code Vision AVR
- Xilinx ISE
- ATMEL Studio

- Proteus
- Microsoft Windows
- Linux(Ubuntu)
- Docker

Natural languages

- Persian(Farsi)(Native)
- English(Fluent)
- Arabic(Familiar)

NOTABLE ACADEMIC PROJECTS

• **CodeForces Like Website**

implemented a Project with purpose like codeforces.com as a part of a project for implementing a website to teach students coding skills online.the project was implemented in a group of 5 people.(Python, HTML, CSS, JavaScript, Django)

• **Principles of Compiler Design**

Implementing a compiler for a programming language using lex and yacc. (Lexer, Parser, Intermediate Code Generation)

• **Operating System Design**

Implemented and evaluated different kinds of task scheduling policies on xv6 OS which is a simple Unix-like teaching operating system (C)

• **Advanced Programming**

Implementated a basic strategic game, with local multi-player features (Java)

• **school system automation design**

system analysis and design course project,Department of computer engineering and information technology

TALKS

Academic Course Presentations

“Optimizing Subway Planning System with Goal of Passenger Minimum Waiting Time and Train Energy Usage”, Oral presentation based on the study of Xu et al., For Research and Oral Presentation course, 2016.

Academic Course Presentations

“What is Game Theory Trying To Accomplish”,Oral presentation based on study of Aumann. For Technical English Presentation, 2015

OTHER ACTIVITIES

- IT Systems Admin at CEIT Computer Site at Amirkabir University of Technology(Jan 2016 - July 2016)
- Technical staff in ACM programming contests for 3 years
- Technical Staff in Linux Festival held by Computer Engineering Department ,Amirkabir University of Technology
- Former Official member of mechanical engineering mountaineering group
- Leadership of a group in summiting mountain Darabad ,located in Tehran Iran
- Swimming semi professionally
- Interested in women's rights (Study women's life and rights in different cultures and countries)
- Passed an online Clinical Psychology Course held by The University of Queensland (Interested in mood disorders and psychosis area)
- Working with Working Children for a summer
- Amateur Photography

REFERENCES

- **Mehran Soleiman Fallah, Associate Professor**

Computer Engineering and IT Department

Email : msfallah@aut.ac.ir

- **Zeinab Akhlaghi, Assistant Professor**

Computer Science and Mathematics Department

Email: z_akhlaghi@aut.ac.ir

- **Seyed Rasoul Mousavi, Assistant Professor**

Computer Engineering and IT Department

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- **Mohammad Mahdi Homayounpour, Professor**

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