

POUYA AGHAHOSEINI

424 Hafez Ave, Tehran, Iran, 15875-4413. ◇ (+98)9102117201

pouyaaghahoseini@gmail.com ◇ GitHub ◇ LinkedIn ◇ Website

EDUCATION

Bachelor of Science in Computer Science

2016-2020(Expected)

Amirkabir University of Technology, Tehran, Iran

Cumulative GPA: 3.6/4 (17.28/20)

Last Two Years GPA(68 Credits): 3.9/4 (18.37/20)

Last Year GPA(32 Credits) : 4/4 (19.55/20)

Member of Student Scientific Chapter (Head of Informatics)

Diploma in Physics and Mathematics Discipline

2012-2016

Allameh Helli High School, Tehran , Iran

National Organization for Development of Exceptional Talents (NODET)

Two Science Seminar Projects (Physics and Mechanics Fields)

GPA: 18.5/20

TEST SCORES

- **TOEFL: 103 (R:28 L:27 S:27 W:21)**
- **GRE: 321 (V:158 Q:163 AWA: to be determined)**

EXPERIENCE

Teaching Assistantship, Fundamentals of Programming: C Language

Starting Sep 2019

Instructor: Dr.Fatemeh Zare-Mirakabad

Amirkabir University of Technology

- Weekly Classes and Assignment Design is expected.

Teaching Assistantship, Compilers

Starting Sep 2019

Instructor: Dr.Mohammad Hassan Shirali-Shahreza

Amirkabir University of Technology

- Weekly Classes and Assignment Evaluation is expected.

Teaching Assistantship, Data Structures and Algorithms

Feb 2019 - Jun 2019

Instructor: Dr.Mohammad Akbari

Amirkabir University of Technology

- Held weekly classes and office hours.
- Designed and Evaluated assignment and projects.

Winter School Organizing Committee Member

Mar 2019

11th Winter School on Computational Geometry

Amirkabir University of Technology

- The Winter School on Computational Geometry is held every year by Math and Computer Science Faculty, in collaboration with IPM Institute for Research in Fundamental Sciences.
- Notable researchers in computational geometry are invited for seminars and workshops in this program.

Lead Teaching Assistantship, Introduction to the Theory of Computation

Sep 2018 - Jan

2019

Instructor: Dr.Fatemeh Zare-Mirakabad

Amirkabir University of Technology

- Held weekly classes

- Supervised monthly workshops
- Designed and Evaluated assignment

Student Scientific Chapter Membership

Head Of Informatics and Competitions

Mar 2018 - Mar 2019

Amirkabir University of Technology

- Organized Data Science Seminars And Workshops.
- Coordinated 5 ACM Contests.
- Arranged On-Site Visits To Leading Tech Companies In Tehran.
- Arranged Talks With Alumni Currently Studying Or Working Abroad.
- Held 2018 New Student Orientation Program.
- Arranged Exam Preparation Classes(Calculus,Programming,Differential Equation).

PROJECTS

Factory Simulation with MATLAB

Simulation Project

Sep 2018 - Jan 2019

Amirkabir University of Technology - Industrial Engineering Faculty

- System modeling and simulation with MATLAB
- Simulation of a factory with 4 lines of work with different performances and various response time of each agent.

Medify: An Application for Fixing Tags And Organizing Media Files

Software Engineering Course Project

Jan 2018 - July 2018

Amirkabir University of Technology

- The application's development was under the supervision of Dr.Amin Gheibi and was Developed using Scrum Methodology for Agile Software Development.
- The coursework required 5 presentations throughout the semester which included a 5-minute startup pitch presentation and the presentation of the first MVP(Minimum Viable Product).
- Weekly feedback Sessions.
- Scrum master role changed every two weeks.

Designing and Creating A Database From YAGO Datasets

Database Course Project

Jan 2018 - July 2018

Amirkabir University of Technology

- Data Extraction using TSV files acquired from max plank institute website.
- Processing and Clustering TSV files with Python and MySQL.
- Designing and Creating A 3NF Database.

SESSET: A Space Efficient Skiplist Data Structure

Data Structures Course Project

Sep 2017 - January 2018

Amirkabir University of Technology

- SSET was implemented with skiplist data structure.
- Each node consisted a BDeque which resulted in more efficient operations.
- All operations are done in $O(\log n)^E + O(\sqrt{n})$ time.

Range-Tree: A 2-D version of Range-Tree Data Structure

Data Structures Course Project

Sep 2017 - January 2018

Amirkabir University of Technology

- The Tree is primarily built with the input points.
- Queries are asked in the form of rectangle coordinates.
- The implementation was in C++ language.

HONORS AND AWARDS

Top 10% in Programme*Math and Computer Science Faculty*

Present

Amirkabir University of Technology

- Class of 70 students

Ranked 1st GPA at Fall-2018 and Spring-2019 Semesters*Math and Computer Science Faculty*

Sep 2018 - Jun 2019

Amirkabir University of Technology

- Class of 70 Students

One of the Top Teams at Amirkabir ACM-ICPC Competition*Computer Engineering Faculty*

Nov 2018

Amirkabir University of Technology

- The ACM-ICPC Contest is held every year at Amirkabir University of Technology. Teams from all universities across the country take part in this competition.
- Candidates for representing the university in Asia Region contest are primarily filtered here.

Ranked Within the Top 0.7% (1,169 among 162,879 students) in Iranian University Entrance Exam*Tehran, Iran*

Jul 2016

- The competition is intense since it is the only means to gain admission to universities.

Accepted in NODET (National Organization for Development of Exceptional Talents) High School Entrance Exam*Tehran, Iran*

Jul 2012

- NODET student selection exam is held every year nationwide for students starting high school. The organization is responsible for a number of schools across the country, which train students on a more advanced level in each field of study.

SKILLS

Programming Languages	C/C++, Python, R, MATLAB
Web Technologies	HTML, CSS, Javascript, MySQL
Libraries	numPy, Pandas
Operating Systems	Linux, Windows
Languages	Persian, English
Miscellaneous	L ^A T _E X, Jupyter, Microsoft Office, GAMS, Database Design

RESEARCH INTERESTS

- Natural Language Processing
- Machine Learning
- Deep Learning
- Data Science
- Artificial Intelligence