POUYA AGHAHOSEINI

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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

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   Mar 2018 - Mar 2019
Head Of Informatics and Competitions   *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 Sep 2018 - Jan 2019
Simulation Project *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 Jan 2018 - July 2018
Software Engineering Course Project *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 Jan 2018 - July 2018
Database Course Project *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 Sep 2017 - January 2018
Data Structures Course Project *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 $O(logn)^E + O(\sqrt{n})$ time.

Range-Tree: A 2-D version of Range-Tree Data Structure Sep 2017 - January 2018
Data Structures Course Project *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 Present
Math and Comptuer Science Faculty *Amirkabir University of Technology*
- Class of 70 students

Ranked 1st GPA at Fall-2018 and Spring-2019 Semesters Sep 2018 - Jun 2019
Math and Comptuer Science Faculty *Amirkabir University of Technology*

· Class of 70 Students

One of the Top Teams at Amirkabir ACM-ICPC Competition Nov 2018
Computer Engineering Faculty *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 Jul 2016
Tehran, Iran

· 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 Jul 2012
Tehran, Iran

· 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
Test Scores	TOEFL(tbt Sep 21), GRE(tbt Oct 5)
Miscellaneous	LaTeX, Jupyter, Microsoft Office, GAMS, Database Design

RESEARCH INTERESTS

- **Natural Language Processing**

- **Machine Learning**

- **Deep Learning**

- **Data Science**

- **Artificial Intelligence**