

POUYA AGHAHOSEINI

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RESEARCH INTERESTS

- Machine Learning
- Natural Language Processing
- Computer Vision
- Reinforcement Learning
- Data Science
- Social Media Computing

EDUCATION

Bachelor of Science in Computer Science 2016-2020(Expected)
Amirkabir University of Technology, Tehran, Iran
CGPA: 3.6/4 (17.28/20)
Last Two Years GPA(68 Credits): 3.9/4 (18.37/20)
Selected Courses ¹

Diploma in Physics and Mathematics Discipline 2012-2016
Allameh Helli High School, Tehran , Iran (NODET)
GPA: 18.5/20

TEST SCORES

- TOEFL: 103 (R:28 L:27 S:27 W:21)
- GRE: 321 (V:158 Q:163 AWA:3.5)

EXPERIENCE

Head TA, Fundamentals of Programming: C Language Present
Instructor: Dr.Farzaneh Salari

- Holding Weekly Workshops
- Designing and Evaluating Assignments

TA, Compilers Present
Instructor: Dr.Mohammad Hassan Shirali-Shahreza

- Exam Preperation Classes and Assignment Evaluation

TA, Data Structures and Algorithms Feb 2019 - Jun 2019
Instructor: Dr.Mohammad Akbari

- 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

- 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.

¹Introduction to Probability, Probability 1:A⁺ ; Foundation of Matrix and Linear Algebra:A ; Foundation of Numerical Analysis:A⁺ ; Data Structures and Algorithms:A⁺ ; Database:A ; Software Design:A ; Design and Analysis of Algorithm:A⁺

Head TA, Introduction to the Theory of Computation

Sep 2018 - Jan 2019

Instructor: Dr.Fatemeh Zare-Mirakabad

- Held weekly classes
- Supervised monthly workshops
- Designed and Evaluated assignment

Student Scientific Chapter Membership

Mar 2018 - Mar 2019

Head Of Informatics and Competitions

- 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

- 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

- 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).

Designing and Creating A Database From YAGO Datasets

Jan 2018 - July 2018

Database Course Project

- 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

- 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

Sep 2017 - January 2018

Data Structures Course Project

- The Tree is primarily built with the input points.
- Queries are asked in the form of rectangle coordinates.

HONORS AND AWARDS

Top 10% in Graduating Class

Present

Math and Computer Science Faculty

- Class of 70 students

Ranked 1st GPA at Fall-2018 and Spring-2019 Semesters

Sep 2018 - Jun 2019

Math and Computer Science Faculty

- Class of 70 Students

One of the Top Teams at Amirkabir ACM-ICPC Competition

Nov 2018

Computer Engineering Faculty

- 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

Miscellaneous

L^AT_EX, Jupyter, Microsoft Office, GAMS, Database Design