POUYA AGHAHOSEINI

Curriculum vitae last updated on December 29, 2019 424 Hafez Ave, Tehran, Iran, 15875-4413. \diamond (+98)9102117201



RESEARCH INTERESTS

- Natural Language Processing
- Machine Learning
- Computer Vision

- Reinforcement Learning
- Social Media Computing
- Information Retrieval

EDUCATION

Bachelor of Science in Computer Science

2016-2020(Expected)

Amirkabir University of Technology(Tehran Polytechnic), 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 Mathematics and Physics

Allameh Helli High School, Tehran, Iran (NODET)

GPA: 18.5/20

2012-2016

TEST SCORES

• TOEFL: 103 (R:28 L:27 S:27 W:21)

• GRE: 321 (V:158 Q:163 AWA:3.5)

RESEARCH EXPERIENCE

Short Text Similarity: A Survey

Nov 2019

Literature Review

· A Comprehensive Survey on works done in the area of Short Text Similarity from 2004 to 2019

TEACHING EXPERIENCE

Head TA, Fundamentals of Programming: C Language

Present

Instructor: Dr.Farzaneh Salari

- · Holding Weekly Workshops
- · Holding Office Hours
- · 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.

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

EXTRACURRICULAR EXPERIENCE

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.

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.
- · Organized And Instructed Exam Preparation Classes (Calculus, Programming, Differential Equations).

PROJECTS

Factory Simulation with MATLAB

Sep 2018 - Jan 2019

Simulation Project

- · System modeling and simulation with MATLAB
- · Simulation of a factory 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 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 Database Course Project

Jan 2018 - July 2018

- · 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

Data Structures Course Project

· An Efficient Data Structure for geometrical queries.

HONORS AND AWARDS

Top 10% in Graduating Class

Present

Math and Comptuer Science Faculty

· Class of 70 students

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

Sep 2018 - Jun 2019

Sep 2017 - January 2018

Math and Comptuer Science Faculty

· Class of 70 Students

Qualified for the final round of 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

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

LibrariesnumPy, PandasOperating SystemsLinux, WindowsLanguagesPersian, English

Miscellaneous IATEX, Jupyter, Microsoft Office, GAMS, Database Design

REFERENCES

Mohammad Akbari

Assistant Professor at Amirkabir University of Technology

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• Fatemeh Zare-Mirakabad

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