

SEYED MOHAMMAD SADEGH MAHDAVI

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EDUCATION

Undergraduate Student of B.Sc. Computer Engineering	2017 – 2021
Sharif University of Technology, Tehran, Iran Department of Computer Engineering, GPA: 18.80/20.00	
Preparation courses for National and International Mathematical Olympiads	2016–2017
Young Scholars Club (YSC), Tehran, Iran Relevant Courses: Mathematics: advanced combinatorics, number theory, algebra and geometry. Computer Science: cryptography, search engine algorithms.	
Diploma in Physics and Mathematics	2014–2017
Allame Helli High School, Kerman, Iran Affiliated with the National Organization for the Development of Exceptional Talents (NODET)	

AWARDS AND HONORS

IMO 2017	2017
Silver Medal Received a Silver Medal in 58th International Mathematical Olympiad , Rio de Janeiro, Brazil	
APMO 2017	2017
Silver Award Received a Silver award in XXIX Asian Pacific Mathematics Olympiad	
INMO 2016	2016
Gold Medal Received a Gold Medal at 28th Iran National Mathematics Olympiad, Tehran, Iran	

RESEARCH EXPERIENCE

Sharif University of Technology	Aug. 2019– present
Research Assistant, Data science and Machine learning Lab (DML) Working on a graph-based semi-supervised learning algorithm to infer users' attributes on a social network, under the supervision of Prof. Rabiee.	

TECHNICAL EXPERIENCE

CafeBazaar	Aug. 2018– Oct. 2019
Software Engineer Implemented a microservice to collect stats and metrics from other microservices. It was written in Python using KairosDB on top of Cassandra at Divar product. I was also maintainer of payment and email microservices. Divar is the leading classified ads service in Iran with more than 20 million users, a product of the Iranian tech giant, CafeBazaar.	
Rahnema Co.	Nov. 2017– Dec. 2017
Software Development Intern Worked as a back-end developer on a social network like Instagram using Java and Spring framework.	
Codeforces	Aug. 2017
Problem Setter	

Codeforces Round #428 Author. More than 5000 contestants around the world competed in this contest.

SKILLS

Languages and Tools	Proficient in Python, Java, Docker, Kubernetes, Redis. Experience using C/C++
Web Development	Expert in Django web framework.
Big Data	Experience using Cassandra, RabbitMQ. Familiar with Spark.
Machine Learning	Experience using PyTorch. Familiar with TensorFlow.

SELECTED COURSES

- Probability and Statistics (grade: 19.5/20)
- Artificial Intelligence (grade: 19.3/20)
- Linear Algebra (grade: 17.8/20)
- Machine Learning (Graduate course, Audited)
- Convolutional Neural Networks for Visual Recognition (Attending Online)

TEACHING EXPERIENCE

Artificial Intelligence	fall 2019
Instructor: Mahdieh Soleymani	
Data Structures	spring 2019
Instructor: Ali Sharifi Zarchi	
Advanced Programming	fall 2018
Instructor: Mahdi Mostafa Zadeh	

RESEARCH INTERESTS

Machine Learning, Deep Learning, Social Systems

VOLUNTEER EXPERIENCE

- Contributed to KairosDB, an open source time series database.
- Scientific director of Sharif AI Challenge 2020. Sharif AI Challenge is an annual AI contest held in Sharif University of Technology.

LANGUAGES

Persian	Native
English	Fluent (Upper-intermediate in Reading, Intermediate in other skills)
Arabic	Reading knowledge