Mohammadreza Osouli

PERSONAL DETAILS

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EDUCATION

Bachelor of Computer Science   2016-2021
University of Tehran - GPA: 17.13/20 = 3.55/4

Diploma in Physics and Mathematics Discipline   2009-2016
Allame Helli High-school - GPA: 18.93/20

RESEARCH INTRESTS

- Human-Computer Interaction
- Natural Language Processing
- Computer Vision
- Data Visualization
- Machine Learning
- Computer Graphics

HONORS AND AWARDS

- 14th Team in Regional Contests of ACM-ICPC West Asia Region (3BiTeam).

- 2nd top student in my bachelor's program.

- Ranked top 1% in The Iranian University Entrance Exam.

- Ranked 11 in computer science master national entrance exam (2018).

- Second Position in 4th Sharif University CTF contest. (Koma team)

- Codeforces candidate master rank (handle :MamZi)

- Participating in IMC 2010 - Korea (Iran B team)

RESEARCH EXPERIENCE

- **Bachelor Thesis,** *Voice Command Classification Using Spiking Neural Networks* under supervision of Dr, Mohammad Ganj Tabesh,
  I used spiking neural networks with dynamic delayed synapses to classify voice commands real-time (commands where zero to nine numbers told by 4 different people).

- **Cockroach control**: *Backyard brains competition about neurology of American cockroaches.*
  We developed a novel method for controlling cockroaches using cerci stimulation.

TEACHING EXPERIENCE

Teaching Assistant
University of Tehran

1. **Teaching Assistant of Dr. Zeynab Mousavian** (2020-2021)
   Courses: Design and Analysis of Algorithms, Bio-informatics

2. **Teaching Assistant of Dr. Bagher Babaali** (2020-2021)
   Course: Data Structures and Algorithms

3. **Teaching Assistant of Dr. Hedieh Sajedi** (2020-2021)
   Course: Artificial Intelligence

4. **Teaching Assistant of Dr. Mojtaba Mojtahedi** (2018-2019)
   Courses: Introduction to Theory of Computation and Theory of Computation

5. **Teaching Assistant of Dr. Majid Alizade** (2018-2019)
   Courses: Basis of Logic and Fundamentals of Mathematics

6. **Teaching Assistant of Dr. Abbas Nowzari** (2017-2018)
   Courses: Advanced Programming and Foundation of Computer Programming

Programming and Algorithms for IoI Prepration 2016-2017
Allame Helli High-School

Teaching programming (c++) and algorithms (for competitive programming contests) to prepare students for International Olympiad in Informatics team selection contests.

SKILLS

Languages	Persian (mother tongue)
	English: IELTS band 7
	(Speaking: 6.5, Listening: 7.5, Reading: 7, Writing: 6)
Programming	Python, C++
	JavaScript (Node.js & React), Django
	OpenCV, OpenGL
Databases	SQL (postgres, mysql), MongoDb, Redis

RELATED COURSES

- **B.Sc Computer Science** - University of Tehran
  Data Structures (19/20), Discrete Mathematics (20/20), Artificial Intelligence (17.6/20), Computer Graphics (18.5/20), Introduction to Bioinformatics (20/20), Theory of Computation (20/20), Data Mining (19.2/20), Probability and Distribution Theory I (19.75/20)

- **Computer Vision Course** - Human and Robot Interaction Laboratory

WORK EXPERIENCE

Software Engineer   2020-2021
TAPSI

   Tapsi is a mobile transportation platform in Iran (like UBER). My work as a back-end
   developer includes maintaining system, fixing issues and adding new features.

Co-Founder and Software Engineer   2019-2020
Paagard

   Paagard is an environmental mobile puzzle game with augmented reality. In other word it's
   an open-door escape room in your smartphone. Due to lock-down, we paused developing it.

Full-stack developer   2018-2019
ESM

   ESM Telecommunication is a growing telecom technical solution and service provider in Iran
   and is planning to pass the country boarders and establish its business in other countries. I was
   lead back-end developer and part-time application developer in Irancell(MTN) bike-sharing
   application "Iran Bike".

Back-end developer   2017
ABR Network

   In ABR network we mainly focused on IoT solutions. Our team was working on a project
   named Jaryaan which was a platform for IoT companies to connect their devices to other
   IoT devices around Iran and the whole world.

VOLUNTARY WORK

Member of Computer Science Scientific Association   2019-2020
University of Tehran

   Computer science scientific association is made of top mark students holding up conferences,
   workshops and activities related to computer science.

HOBBIES

- Photography
- Hiking
- Camping
- Puzzles
- Swimming
- Baking