

# M.Ali Farahat

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## Education

### Student of B.Sc. in Computer Engineering with a concentration on AI

Iran University of Science and Technology

*Tehran, Iran*

Sep 2018 - Expected Jan 2023

- Ranked **4th** among Iran universities based on QS ranking 2023
- **GPA** (up to now via 135 units): **3.56/4**
- **GPA** (last 82 credits): **3.96/4**

### Diploma in Mathematics and Physics Discipline

Mofid High school

*Tehran, Iran*

2014 - 2018

- GPA: 4/4

## Awards & Honors

Permitted to apply for M.Sc. program at the Department of Computer Engineering without taking the "National Entrance Exam for Graduate Schools" as an award for being among the **top 20%** of students

Jun 2022

Winning an award for being the **3rd** team in "**Chillin Wars**" AI competition

Mar 2019

Ranked **516th** among 144K candidates (within the **top 0.3%**) in the "National Entrance Exam for Iranian Universities"

Jul 2018

Accepted in the first stage of the National Mathematical Olympiad

Feb 2017

Accepted in the first stage of the National Computer Olympiad

Fe 2017

Accepted in the first stage of the National Mathematical Olympiad

Feb 2016

Accepted in the first stage of the National Computer Olympiad

Feb 2016

## Research Interests

- Machine Learning/Deep Learning
- Natural language processing
- Computer Vision
- Reinforcement Learning
- Human Machine Interaction
- Software Engineering
- Security and Mobile Networks
- Data Science

## Skills & Languages

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<b>Programming</b>	<b>Proficient at:</b> C#, Python, Java, C++, C, HTML, CSS, Javascript, Arduino <b>Familiar with:</b> MATLAB, VHDL, Assembly, SQL, Kotlin
<b>Frameworks</b>	<b>Proficient at:</b> .NET, ASP.NET Core, Entity Framework Core, PyGame, StateChart <b>Familiar with:</b> Vue.js, Django
<b>Learning tools</b>	Google Colab, Keras, TensorFlow, PyTorch, OpenCV, Numpy, ,Pandas, Matplotlib, Scikitlearn
<b>Project Management</b>	Git, Scrum, Azure, Trello, ClickUp, Draw IO
<b>Others</b>	Latex, Android Development, Linux, SQL Sever, Xilinx ISE, Proteus, UML, Unity 3D, CI/CD

## Languages

<b>Persian</b>	Native
<b>English</b>	TOEFL iBT: <b>96</b> (Speaking: 26, Writing:24, Reading: 23, Listening: 23) GRE Quantitative: <b>165</b> (81st Percentile)

## Teaching Experience

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<b>Deep Learning TA</b> (Instructor: Dr. Marzieh Davoodabadi)	Sep 2022 - Present
<b>Fundamentals of Game Development TA</b> (Instructor: Dr. Behrouz Minaei-Bidgoli)	Sep 2022 - Present
<b>Programming Basics TA</b> (Instructor: Dr. Marzieh Davoodabadi)	Sep 2022 - Present
<b>Programming Basics TA</b> (Instructor: Dr. Mehrdad Ashtiani)	Feb 2022 - Jun 2022
<b>Artificial Intelligence TA</b> (Instructor: Dr. Behrouz Minaei-Bidgoli)	Sep 2021 - Jan 2022
<b>Computational Intelligence TA</b> (Instructor: Dr. Naser Mozayani)	Sep 2021 - Jan 2022
<b>Operating Systems TA</b> (Instructor: Dr. Reza Entezari-Maleki)	Sep 2021 - Jan 2022
<b>Programming Basics TA</b> (Instructor: Dr. Reza Entezari-Maleki)	Sep 2021 - Jan 2022
<b>System Analysis and Design Mentor</b> (Instructor: Dr. Mehrdad Ashtiani)	Feb 2021 - Jun 2021

## Online Courses

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<b>Data Structures, University of California San Diego</b> (Coursera)	Aug 2020
<b>Algorithms on Graphs, University of California San Diego</b> (Coursera)	Jul 2020
<b>Algorithms on Strings, University of California San Diego</b> (Coursera)	Jul 2020
<b>Algorithmic Toolbox, University of California San Diego</b> (Coursera)	Jul 2020

## Industrial Experience

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<b>Internship at Dastyar company</b>	<i>Tehran, Iran</i>
2 months internship, ASP.NET MVC, SQL, HTML, CSS and JavaScript	Aug 2020 - Sep 2020
<b>Junior developer at Famiran company</b>	<i>Tehran, Iran</i>
4 months internship, ASP .NET as Back-end and Vue.Js as Front-end framework	Sep 2019 - Jan 2020

## Selected Academic Courses

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Deep Learning (Special Topics 1)	A	Theory of Languages and Automata	A
Computational Intelligence	A	Discrete Mathematics	A+
Algorithm Design	A	Operating Systems	A+
Data Structure	A+	Software Engineering	A
Computer Game Design	A+	System Analysis and Design	A+
Mobile Networks (Special Topics 2)	A+	Security of Computer Systems	A+

## Academic Projects

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### Optical Character Recognition

Deep Learning Course Project

Dec 2021

- Extract the national ID and card number from the national card and bank card (English and Persian)

### Deep Learning Course

Assignments

Sep 2021 - Jan 2022

- Several Projects, including image filtering and classification
- Developed proficiency with Python libraries such as TensorFlow, Keras, Numpy, Scikit-learn, Pandas, Matplotlib,...

### Tower Defense

Computer Game Design Course Project

Sep 2021 - Jan 2022

- 3D Game developed with Unity 3D

### Computational Intelligence Course

Assignments

Jan 2021 - June 2021

- Several implementations, including Kohonen SOFM, MLP, Hopfield Network, etc., built from the ground up

### ChatHouse

Software Engineering Course Project

Jan 2021 - Jun 2021

- ChatHouse is a social media application which users can create interest-based chatrooms.
- Front-end with Java for android and Back-end with ASP.NET

### Artificial Intelligence Course

Practical Assignments

Sep 2020 - Jan 2021

- Berkeley University AI Projects

### Eventus

System Analysis and Design Course, Back-end Project

Sep 2020 - Jan 2021

- A platform for creating, organizing, and selling tickets for all kinds of events

### Alter Tank

Programming Basics Course Project

Sep 2018 - Jan 2019

- Famous and popular game, Built with PyGame

## References

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Valid upon request