

# Ali Salimian

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**GitHub:** github.com/itsAliSali

## Education

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2017 - present    BSc, Electrical Engineering (Control Systems), K. N. Toosi University of Technology, Iran

**Cumulative GPA:** 17.87/20 (US GPA: 3.73/4) (top 5% in the class)

**Selected Courses:** Computer Vision, Intelligent Systems, Neural Networks,  
Linear Algebra, Numerical Optimization, Robotics.

**Minor:** Computer Engineering

**Selected Courses:** Advanced programing, Data structures, Algorithm design,  
Operating systems, Computer networks, Automata theory.

GRE will be taken on Dec 29<sup>th</sup>.

## Projects

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- Jun 2021        SoccerField. Visual detection and classification of players in a soccer match by using OpenCV and PyTorch. «*GitHub*».
- Jan 2021        PSO-GA. An evolutionary optimizer for solve constrained problems. «*GitHub*».
- July 2020       Chess game. A graphical chess game with an AI agent powered by alpha-beta pruning algorithm. «*GitHub*».

## Experiences

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- 2021/July-2021/Sep        Intern, *ARAS Robotic Lab*.  
Role: Researcher, Developer. Project: Generating fabricable marquetry crafts.
- 2020/Sep-2021/Mar        Research Assistant, Iran's National Elite Foundation.  
Role: I worked in a group on the latest CNN approaches to segment MS lesions in MRI images.
- 2019/Oct -2019/Dec        Early-stage employee, *Nikted*.  
Role: Embedded software developer. Project: designing an Infrared Thermometer.

## Technical Skills Highlights

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Languages	Python, (Modern) C++, Matlab, Java
Programming Concepts	Object Oriented Programming, Concurrency and Parallelism
Libraries	OpenCV, PyTorch, Scikit-learn, Numpy, TensorFlow
Embedded Systems	Embedded C Programming, ARM (STM32) and AVR Microcontrollers
Others	Git, Docker, Linux bash, L <sup>A</sup> T <sub>E</sub> X

## Professional Certificates

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Certified from Coursera.org

Aug 2020	Introduction to TensorFlow, Deeplearning.ai
Aug 2020	Neural Networks and Deep Learning, Deeplearning.ai
Apr 2020	Applied Machine Learning in Python, University of Michigan

## Languages

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English	Professional Proficiency. IELTS, Overall Score: 7.5/C1 Listening:8, Reading: 7.5, Writing: 6.5, Speaking: 7
Farsi	Native.

## Fields of Interests

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Machine Learning, Deep Learning, Computer Vision, Data Science, Robotics, Computational Methods

## Community Outreach

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2019 - 2021	Member of IEEE university student branch. Role: Content provider, <i>Signal Magazine</i> .
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## Teaching Experiences

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Fall 2021	Teaching Assistant. Linear Algebra. Instructor: Dr. B. Nasihatkon
Fall 2021	Teaching Assistant. Linear Control Systems. Instructor: Dr. H. Taghirad
Spring 2019	Teaching Assistant. Digital Systems. Instructor: Dr. H. Zandi