

# Ali Salimian

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**GitHub:** github.com/itsAliSali



## Education

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- 2022 - present    M.Sc. Simulation Sciences, RWTH-Aachen University, Germany
- 2017 - 2022       B.Sc. Electrical Engineering (Control Systems), K. N. Toosi University of Technology, Iran

**Cumulative GPA:** 17.93/20 (US GPA: 3.78/4) (top 5% in the class)

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

**Minor:** Computer Science

**Courses:** Advanced programming, Data structures, Algorithm design,  
Operating systems, Computer networks, Database systems.

## Projects

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- May 2022        MsSql-Flask web app. In this project, I implemented the database layer for a complex web application. A simple web server is implemented to show some functionalities of the app. «*GitHub*».
- Jun 2021        SoccerField. Real-time detection and classification of players in a soccer match by using OpenCV and PyTorch. «*GitHub*».
- Jan 2021        PSO-GA. An evolutionary optimizer for solving constrained problems. «*GitHub*».
- July 2020        Chess game. A graphical chess game with an AI agent powered by an 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, Convergent Technologies Research Center in University of Tehran.  
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, C/C++, Matlab, Java
Programming Concepts	Object Oriented Programming, Concurrency and Parallelism
Libraries	OpenCV, PyTorch, OpenMP, Scikit-learn, Numpy, TensorFlow
Embedded Systems	Embedded C Programming, ARM (STM32) and AVR Microcontrollers
Others	Git, Docker, Linux bash, $\LaTeX$

## 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
German	Beginner level. Limited Proficiency.
Persian	Native Proficiency.

## 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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Spring 2021	Teaching Assistant. Introduction to Computer Vision. Instructor: Dr. Behrooz Nasihatkon
Fall 2021	Teaching Assistant. Linear Control Systems. Instructor: Dr. Hamid D. Taghirad
Fall 2021	Teaching Assistant. Linear Algebra. Instructor: Dr. Behrooz Nasihatkon
Spring 2019	Teaching Assistant. Digital Systems. Instructor: Dr. Hesam Zandi