

Ali Salimian

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Education

- 2022 - present M.Sc. Simulation Sciences, RWTH-Aachen University, Germany
- 2017 - 2022 BSc, 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, DBMS.

Projects

- 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

- 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

Languages	Python, C/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, \LaTeX

Professional Certificates

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

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

Community Outreach

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

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