Sadaf Nazari

Personal

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Education

Sep. 2016-May 2021

- B.Sc. in Computer Engineering, K. N. Toosi University of Technology, Tehran, Iran.
  World university rankings 2021: 801-1000th
  - ❖ Overall GPA: 3.51/4 (16.81/20)
  - ❖ Last two-year GPA: 3.60/4 (17.16/20)

Fields of Interest

- Machine Learning, Deep Learning, Reinforcement Learning
- Computer Vision, Image Processing
- Robotics

Honors and Awards

Dec. 2018
- Best Presentation in RoboCup Asia-Pacific (2D Soccer Simulation League).

Sep. 2018
- 3rd place in RoboCup Shiraz Open Competition (2D Soccer Simulation League).

Sep. 2016
- Received Full Tuition Fee Waiver Scholarship from K. N. Toosi University of Technology.

Jul. 2016
- Ranked in the top 0.8% among more than 200000 participants in the annual nationwide undergraduate university entrance(konkoor) exam.

Selected Projects

- Bachelor Thesis, Single Shot Licence Plate Detection (GitHub link)
  - ❖ We are trying to use mobilenet + SSD architecture for detecting licence plates.
  - ❖ Advisor: Dr. Behrooz NasihatKon
- Development of Persian Handwritten Recognizer (GitHub link)
  - ❖ We used Computer Vision and CNN to detect Persian letters and digits.
  - ❖ Advisor: Dr. Behrooz NasihatKon
- Development of AES Rijndeal Algorithm on FPGA (GitHub link)
  - ❖ We hired hardware approach to speed up encryption and decryption.
  - ❖ Advisor: Dr. Hossein HosseiniNejad
- Development of audio feature extractor (GitHub link)
  - ❖ Our objective was to distinguish vowels from consonants by calculating their energies.
  - ❖ Advisor: Dr. Roghaye Doost

Research Experience

Sep. 2020-Jul. 2021	• Researcher, Rahbin Sanat Nasir, Tehran, Iran.
Jul. 2020-Sep. 2020	• Research Intern, Rahbin Sanat Nasir, Tehran, Iran.
Dec. 2017-Apr. 2019	• Researcher, 2D Soccer Simulation League, KN2C Robotic Team, Tehran, Iran.

Teaching Experience

Sep. 2019-Jun. 2020	• Teacher, Python Programming, Taghva High School, Tehran, Iran.
Sep. 2019-Jan. 2020	• Teaching Assistant, Digital Electronics & VLSI, K. N. Toosi University of Technology, Tehran, Iran. ❖ Dr. Masoud DehYadegari
Jan.2019-May 2019	• Teaching Assistant, Fundamentals of Programming, K. N. Toosi University of Technology, Tehran, Iran. ❖ Dr. Chitra Dadkhah
Sep. 2018-Mar. 2019	• Instructor of C++ Programming Course, KNTU ACM Student Chapter, Tehran, Iran. ❖ Dr. Amin NikAnjam
Sep. 2018-Jan. 2019	• Teaching Assistant, Microprocessors & Assembly Language, K. N. Toosi University of Technology, Tehran, Iran. ❖ Dr. Behrooz NasihatKon
Jan. 2018- May 2018	• Teaching Assistant, Discrete Mathematics, K. N. Toosi University of Technology, Tehran, Iran. ❖ Dr. Hossein Khasteh

Certificates

- KNTU ACM Student Chapter (link)
- RoboCup Asia-Pacific 2018 Competition (link)
- RoboCup Shiraz Open 2018 Competition (link)
- Deep Learning Specialization (link)
- Machine Learning with Python(link)

Relevant Courses

- Fundamental of Computer & programming (A+)
- Algorithm Design (A)
- Engineering Probability (A+)
- Artificial Intelligence & Expert Systems (A)
- Fundamental of Robotics (A)
- Foundations of Computer Vision (A+)

Computer Skills

Deep Learning	TensorFlow, Keras
Computer Vision	OpenCV, NumPy, SciPy, Matplotlib
Programming Language	C++, Python, C (EXPERT) Java, VHDL, Verilog, x86Assembly (FAMILIAR)
Tools	GIT, Linux, Qt, PyQt5
Web Development	HTML, CSS, JavaScript(FAMILIAR), React Native(FAMILIAR)

Language Skills

- Persian: Native
- English: Fluent
  IELTS ACADEMIC OVERALL BAND SCORE: 7.5 (Reading:8.5, Listening: 8, Speaking:7, Writing:7)