

# SAHAR FAKHRIEH KASHAN

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## EDUCATION

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### **B.Sc. Computer Engineering**

September, 2017 - August, 2021

The University of Guilan, Rasht, Iran

- **GPA:** 3.6 (17.45/20)

- Thesis: "Visual Neglect Therapy Service (website version)"
- Supervisors: Dr. HamidReza Ahmadifar
- Thesis Grade: 20/20
- Explanation: A cost-effective technology for rehabilitation following a brain injury. Can help individuals with visual field issues.

## HONORS AND AWARDS

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### **Coursera GTC Badge (Translated at least 15,000 words at high quality)**

September, 2021

Translated at about 15,000 words at high quality in Coursera GTC  
You can find the **badge** here.

### **Participant in ICPC (International Collegiate Programming Contest)**

December, 2020

in the West Asia Regional ACM-ICPC Programming Contest, Tehran, Iran  
You can find the **certification** here.

**Top 1%** of 150,000 participants in Iranian University Entrance exam  
for Bachelor of Science

July, 2017

### **Tuition Waiver, B.Sc., University of Guilan**

July, 2017

I was selected through a highly competitive national entrance exam. In this exam, the selected students should have a minimum rank of up to 1% to get accepted at the University of Guilan, and it has approximately a total of 150,000 applicants.

## RESEARCH INTERESTS

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- **Artificial Intelligence**
- **Machine Learning**
- **Visualization**

## - Software Engineering

### TOP ACADEMIC COURSE PROJECTS

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- **Simulation of Flappy Bird game based on Computational Intelligence**  
Under the supervision of Ali Tourani, the final project of the Principles of Computational Intelligence course.  
🔗 [github.com/saharfk/flappy-bird](https://github.com/saharfk/flappy-bird)
- **Implementation of a 6-bit-processor**  
Under the supervision of Dr. Mohammad Salehi, final project of the software/hardware codesign using VHDL and java.  
🔗 [github.com/saharfk/6bitProcessorVHDL-pythonAssemblerCode](https://github.com/saharfk/6bitProcessorVHDL-pythonAssemblerCode)
- **Simulation of Shop-database**  
Under the supervision of Dr. Asadollah Shahbahrami, final project for database management course. We designed a database for an online store using SQL server.  
🔗 [github.com/saharfk/shop-simulator](https://github.com/saharfk/shop-simulator)
- **Embedded-System-air-controller with Proteus**  
Under the supervision of Dr. Mohammad Salehi, the final project of embedded system course  
The system samples temperature and humidity from three points by three temperature and humidity sensors and controls a heater, an air conditioner, and a humidifier.  
🔗 [github.com/saharfk/Embedded-System-air-controller](https://github.com/saharfk/Embedded-System-air-controller)
- **TAK game with Prolog**  
Under the supervision of Dr. Seyed Abolghasem Mirroshandel, final project for Artificial intelligence course.  
🔗 [github.com/saharfk/Artificial-intelligence-course](https://github.com/saharfk/Artificial-intelligence-course)
- **Python assistant**  
final project of Python elementary course. A google assistant simulator that can hear your commands and serve them.  
🔗 [github.com/saharfk/python-assistant](https://github.com/saharfk/python-assistant)
- **Graphical document scanner with OpenCV and PyQt5**  
Under the supervision of Dr. Asadullah Shahbahrami, final project of Fundamental of Computer Vision course.  
🔗 [github.com/saharfk/graphical-document-scanner-with-openCV](https://github.com/saharfk/graphical-document-scanner-with-openCV)
- **Car scrapping using python**  
Scraps car brand in Bama site and then saves data in data base.  
🔗 [github.com/saharfk/car-scrapping](https://github.com/saharfk/car-scrapping)

- **Django “Instagram Web” clone**  
A Django website which is a clone of Instagram web page.  
🔗 [github.com/saharfk/instagramCloneProject](https://github.com/saharfk/instagramCloneProject)
- **Veglectherapy Project (thesis project)**  
an indispensable tool for cost-effective rehabilitation following a brain injury. (Inspired by RehaCom)  
🔗 [github.com/saharfk/VeglectherapyProject](https://github.com/saharfk/VeglectherapyProject)
- **Amazon book finder**  
Gets books name or writer and scraps in amazon site and gives books detail as output.  
🔗 [github.com/saharfk/book-finder](https://github.com/saharfk/book-finder)
- **Knapsack Problem**  
Under the supervision of Nima Nozari, final project of algorithm design course.  
🔗 [github.com/saharfk/knapsack](https://github.com/saharfk/knapsack)
- **TSP (traveling salesman Problem)**  
Under the supervision of Nima Nozari, final project of algorithm design course.  
🔗 [github.com/saharfk/TSP](https://github.com/saharfk/TSP)

## EXPERIENCE

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**Embedded Systems Teaching Assistant** Sep 2021 to Present  
**University of Guilan**  
 Under supervision of Dr. Mohammad Salehi  
 grading assignments + grading final project + Designing sample questions

**Theory of formal languages and Automata Teaching Assistant** Feb 2020 to May 2020  
**University of Guilan**  
 Under supervision of Dr. Mehrdad Shekarian  
 Team coordinator + Designing and grading assignments + Designing sample questions

**Programming Basics Teacher Assistant** Sep 2019 to Jan 2020  
**University of Guilan**  
 Under supervision of Dr. Mehrdad Shekarian  
 Designing and grading assignments

## VOLUNTEER EXPERIENCE

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**Member of the Coursera Translators Association** Apr, 2019  
 Translated approximately 16000 words at “[coursera.org](https://www.coursera.org)”

## CERTIFICATIONS

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**Mastering The Complete Agile Scrum Master Workshop**, Udemy Sep, 2021  
You can find the certification [here](#).

**Effective Time Management Skills For A Productivity Boost**, Udemy Sep, 2021  
You can find the certification [here](#).

**Building Web Applications in Django**, Coursera May, 2021  
You can find the certification [here](#).

**Hadoop Platform and Application Framework**, Coursera Feb, 2021  
You can find the certification [here](#).

**Web scraping with python Certification**, Maktabkhooneh Apr, 2020  
You can find the certification [here](#).

**Advanced Python programming Certification**, Maktabkhooneh Nov, 2019  
You can find the certification [here](#).

**Python elementary Certification**, Maktabkhooneh Apr, 2019  
You can find the certification [here](#).

## LANGUAGES

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**Persian:** Native Language

**English:** IELTS: To be taken soon

**Turkish:** Intermediate

## COMPUTER SKILLS

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**Programming Languages:** Python, Java, C++.

**Web Development:** HTML, CSS, JavaScript, SQL, Django.

**Applications:** Proteus, GNS3, Unified Modeling Language (UML).

**VMware:** Oracle VM VirtualBox.

**Operating Systems:** Windows, Linux (Ubuntu).

**Tools & Technologies:** GitHub.

**Interpersonal Skills:** Teaching, Teamwork.

## REFERENCES

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**Dr. HamidReza Ahmadifar**, [Assistant Professor]  
[University of Guilan, Guilan, Iran]  
Email: [[ahmadifar@guilan.ac.ir](mailto:ahmadifar@guilan.ac.ir)]  
Linkedin: [[linkedin.com/in/hamidreza-ahmadifar-33a5a431](https://www.linkedin.com/in/hamidreza-ahmadifar-33a5a431)]

**Dr. Seyed Mehrdad Shekarian**, [Assistant Professor]  
[University of Guilan, Guilan, Iran]  
Email: [[shekarian@guilan.ac.ir](mailto:shekarian@guilan.ac.ir)]

**Dr. Mohammad Salehi**, [Assistant Professor]  
[University of Guilan, Guilan, Iran]  
Email: [[mohammad.salehi@guilan.ac.ir](mailto:mohammad.salehi@guilan.ac.ir)]

## AUDITED COURSES

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Course Name	Iranian Grade (out of 20)	GPA	US Grade
Artificial intelligence	18.7	4	A+
software engineering	18.3	4	A+
Research and presentation methods	19.25	4	A+
Fundamental of Computer Vision	20	4	A+
Fundamentals of Computational Intelligence	17.5	4	A
Theory of formal languages and Automata	17.75	4	A
Software testing	20	4	A+
Systems analysis and design	19.5	4	A+
Operating systems	20	4	A+
Compiler Design Fundamentals	19.5	4	A+
Database Management	20	4	A+
Computer Networks	19.75	4	A+
Embedded Systems	20	4	A+
Network security	20	4	A+
Internet Engineering	20	4	A+