

# SAHAR FAKHRIEH KASHAN

Website: [saharfk.github.io/CV/](https://saharfk.github.io/CV/)  
E-mail: [saharfakhriehkashan@gmail.com](mailto:saharfakhriehkashan@gmail.com)

LinkedIn: [linkedin.com/sahar-fakhrieh](https://linkedin.com/sahar-fakhrieh)  
Github: [github.com/saharfk](https://github.com/saharfk)

## 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** July, 2017  
for Bachelor of Science

**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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- **Software Engineering**
- **Machine Learning**
- **Computational Intelligence**

## - Natural language processing (NLP)

### SELECTED PROJECTS

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- **TensorFlow movie recommender**  
Extended TensorFlow movie recommender code, using *TensorFlow Recommenders (TFRS)* library and with *MovieLens* dataset. This project was developed in the *Google Colab* environment.  
[🔗 github.com/saharfk/tensorflow-movie-recommender](https://github.com/saharfk/tensorflow-movie-recommender)
- **Simulation of Flappy Bird game based on Computational Intelligence**  
Rebuilt the Flappy Bird project using neat library in *Python* based on *Genetics Algorithm*. The final project of the Principles of *Computational Intelligence* course, Under the supervision of Ali Tourani.  
[🔗 github.com/saharfk/flappy-bird](https://github.com/saharfk/flappy-bird)
- **Simulation of Shop-database**  
Designed a database for an online store using *SQL server*. The final project for the *database management* course, under the supervision of Dr. Asadollah Shahbahrami.  
[🔗 github.com/saharfk/shop-simulator](https://github.com/saharfk/shop-simulator)
- **Embedded-System-air-controller**  
Designed an air conditioner and simulated it using the *Proteus*. 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. The final project of *embedded system* course, under the supervision of Dr. Mohammad Salehi.  
[🔗 github.com/saharfk/Embedded-System-air-controller](https://github.com/saharfk/Embedded-System-air-controller)
- **Python assistant**  
Designed a *google assistant simulator* with *Python* that can do things like playing music, searching on Wikipedia, reporting weather, talking, and understanding your voice, opening IDE, etc.  
final project of Python elementary course.  
[🔗 github.com/saharfk/python-assistant](https://github.com/saharfk/python-assistant)
- **Graphical document scanner with OpenCV and PyQt5**  
Developed a *document scanner* simulator app with *OpenCV* that gets a picture and scans it in different models, and executes it in .pdf format. The final project of Fundamental of Computer Vision course, Under the supervision of Dr. Asadollah Shahbahrami.  
[🔗 github.com/saharfk/graphical-document-scanner-with-openCV](https://github.com/saharfk/graphical-document-scanner-with-openCV)

- **Django “Instagram Web” clone**  
Coded a clone of the Instagram web page with Django and Bulma framework.  
🔗 [github.com/saharfk/instagramCloneProject](https://github.com/saharfk/instagramCloneProject)
- **Amazon book finder**  
Built a *web scrapper* with "*bs4*" and "*requests*" libraries in *Python* that gets books name or writer and scraps in “amazon” website and gives books detail as output.  
🔗 [github.com/saharfk/book-finder](https://github.com/saharfk/book-finder)
- **Knapsack Problem**  
Developed the knapsack code with Python from scratch (without using its library) for solving a particular problem.  
The final project of algorithm design course, Under the supervision of Nima Nozari.  
🔗 [github.com/saharfk/knapsack](https://github.com/saharfk/knapsack)
- **TSP (traveling salesman Problem)**  
Developed the TSP code with Python from scratch (without using its library) for solving a particular problem.  
The final project of algorithm design course, Under the supervision of Nima Nozari.  
🔗 [github.com/saharfk/TSP](https://github.com/saharfk/TSP)

## EXPERIENCE

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**Embedded Systems Teaching Assistant** Sep 2021 to Jan 2022  
**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://coursera.org)”

You can see my profile from [Here](#)

## SELECTED CERTIFICATIONS

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| <b>Mastering The Complete Agile Scrum Master Workshop</b> , Udemy<br>You can find the certification <a href="#">here</a> . | Sep, 2021 |
| <b>Building Web Applications in Django</b> , Coursera<br>You can find the certification <a href="#">here</a> .             | May, 2021 |
| <b>Hadoop Platform and Application Framework</b> , Coursera<br>You can find the certification <a href="#">here</a> .       | Feb, 2021 |
| <b>Web scraping with Python Certification</b> , Maktabkhooneh<br>You can find the certification <a href="#">here</a> .     | Apr, 2020 |
| <b>Advanced Python programming Certification</b> , Maktabkhooneh<br>You can find the certification <a href="#">here</a> .  | Nov, 2019 |
| <b>Python elementary Certification</b> , Maktabkhooneh<br>You can find the certification <a href="#">here</a> .            | Apr, 2019 |

## LANGUAGES

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**Persian:** Native Language

**English:** IELTS Overall: 6.5  
Listening: 7, Reading: 6.5, Writing: 6, Speaking: 6.5

**Turkish:** Intermediate

## SKILLS

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

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

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

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

**Tools & Technologies:** GitHub.

**Natural Language Processing:** TensorFlow.

**Computer Vision:** OpenCV.

**Database Management:** SQL Server 2008, MySQL, PhpMyAdmin.

**Soft Skills:** Critical Thinking, Creativity & Problem Solving, Teamwork, Leadership, Digital Literacy, Intercultural Fluency

## 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)]