**Sahar Fakhrieh Kashan**

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| Website: [saharfk.github.io/CV/](https://saharfk.github.io/CV/)  E-mail: [saharfakhriehkashan@gmail.com](mailto:saharfakhriehkashan@gmail.com) | LinkedIn: [linkedin.com/sahar-fakhrieh](http://www.linkedin.com/in/sahar-fakhrieh-027832170)  Github: [github.com/saharfk](https://github.com/saharfk) |

# Education

**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)](https://github.com/saharfk/project)”
  + 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

**Coursera GTC Badge (Translated at least 15,000** September, 2021

**words at high quality)**

Translated at about 15,000 words at high quality in Coursera GTC

[You can find the **badge** here](https://www.credly.com/badges/7d8ab12f-6609-42c7-ac23-b0030eaa4072?source=linked_in_profile).

**Participant** **in ICPC (International Collegiate Programming** December, 2020

**Contest)**

in the West Asia Regional ACM-ICPC Programming Contest, Tehran, Iran

[You can find the **certification** here](https://icpc.global/ICPCID/1ASOD3LLDY66).

**Top** 1**%** of **150**,000 participants in [Iranian University Entrance exam](https://en.wikipedia.org/wiki/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](https://en.wikipedia.org/wiki/Iranian_University_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

**-** **Software Engineering**

**- Machine Learning**

**-** **Computational Intelligence**

**- Natural language processing (NLP)**

# Selected Projects

* **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. Asadullah Shahbahrami.

 [github.com/saharfk/graphical-document-scanner-with-openCV](https://github.com/saharfk/graphical-document-scanner-with-openCV)

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* **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](https://www.amazon.com/)” 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

**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

**Member of the Coursera Translators Association** Apr, 2019

Translated approximately 16000 words at “[coursera.org](https://www.coursera.org/)”

You can see my profile from [Here](https://translate-coursera.org/new_gtc/app/#/translator/profile/432981)

# Selected Certifications

**Mastering The Complete Agile Scrum Master Workshop**, [Udemy](https://www.udemy.com/) Sep, 2021

You can find the certification [here](https://ude.my/UC-e565f7c7-6702-4872-ac18-be4de8c81ac1/).

**Building Web Applications in Django**, [Coursera](https://www.coursera.org/) May, 2021

You can find the certification [here.](https://www.coursera.org/account/accomplishments/certificate/YHPHMQWSKHP9)

**Hadoop Platform and Application Framework**, [Coursera](https://www.coursera.org/) Feb, 2021

You can find the certification [here](https://www.coursera.org/account/accomplishments/certificate/78HUP4NMDQ7N).

**Web scraping with Python Certification**, [Maktabkhooneh](https://maktabkhooneh.org/) Apr, 2020

You can find the certification [here](https://maktabkhooneh.org/media/students/certificates/15860686800981846.pdf).

**Advanced Python programming Certification**, [Maktabkhooneh](https://maktabkhooneh.org/) Nov, 2019

You can find the certification [here](https://maktabkhooneh.org/media/students/certificates/157483698376629.pdf).

**Python elementary Certification**, [Maktabkhooneh](https://maktabkhooneh.org/) Apr, 2019

You can find the certification [here](https://maktabkhooneh.org/media/students/certificates/1554620500925175.pdf).

# Languages

**Persian:** Native Language

**English**: IELTS Overall: 6.5

Listening: 7, Reading: 6.5, Writing: 6, Speaking: 6.5

**Turkish**: Intermediate

# Skills

**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