

# Saeed All Gharaei

COMPUTER SCIENCE · SOFTWARE ENGINEER

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## Education

### Sadjad University of Technology

B.S. IN COMPUTER ENGINEERING

Current GPA: 3.64/4 (17.59/20)

Jalal Al Ahmad St, Mashhad, Iran

2018 - Present

## Fields of Interests

- Software Engineering
- Human-computer Interaction
- Interface and interaction design
- Mobile Computing
- Internet of Things

## Projects

### Nansie Sharpless (Github Repository) - (Arduino Project Hub)

Arduino - Swift

ACADEMIC PROJECT - DIVERSITY AND INCLUSION - INTERNET OF THINGS

2021-2022

- A band equipped with Wemos ESP8266 and a vibration motor in order to inform the deaf user about the surroundings
- Implementation of a new approach to communicate with deaf people.
- An iOS application connects to the band with the server generated by Wemos in order to send and receive data.

### Flutterduino (Github Repository) - (Arduino Project Hub)

Arduino - Swift

ACADEMIC PROJECT - COMMUNICATION AND SOCIAL - INTERNET OF THINGS

2021-2022

- Using Flutter to build the client app.
- Arduino as the backend of the messenger.
- Wemos mini d1 lite, ESP8266 as the host.

### Data Structures (Github Repository)

C++ Programming Language

ACADEMIC PROJECT - TEACHING PURPOSES - VIRTUAL EDUCATION

2020

- Developed binary search tree, linked list with iterators, array linked list and stack.
- tree traversals (postorder, inorder and preorder) in both recursive and non-recursive approaches.
- Integrated data structures. (e.g. tree with stack)
- Deployed and maintained the code for educational purposes as a teacher assistant in order to improve the quality of virtual education during pandemic.

### Advanced Programming

C++ Programming Language

ACADEMIC PROJECT

2019

- Developed a minesweeper game (Github Repository)
- Developed an generic social media project (similar to Instagram), featuring working with files, the ability to create public/private accounts with password encryption, publish posts, follow others, be followed, edit and logout. (Github Repository)

## Teaching Experience

### Internet of Things

TEACHING ASSISTANT - DR. BEHZAD BAKHTIARI

Spring 2022

## Work Experience

### Radar technology (website)

Mashhad, Iran

SOFTWARE DEVELOPER AND ENGINEER

Jun 2021 - Present

- Developed mobile application for iOS and Android.(under development. (Pet Tracker)
- Conducted a research about software architectures and design patterns while providing effective ways to improve the quality of code base.

### Radar technology (website)

Mashhad, Iran

INTERNSHIP

May 2021 - Jun 2021

- Test Flutter features and abilities as a member in research and development team. (GitHub Repository)

## Magic Cards (More Info)

SOFTWARE DEVELOPER AND ENGINEER - RESEARCHER AND DEVELOPMENT

- Aimed to teach English to newbie students and children during COVID 19 pandemic.
- Developed a set of applications in order to enhance virtual education quality for teachers and pupils.

## Musico (More Info)

SOFTWARE DEVELOPER AND ENGINEER - RESEARCHER AND DEVELOPMENT

- Aimed to contribute to jailbreak open source community.
- Developed music player with extra access to directories compared to iOS music built-in app.

## Part Software Group (More Info)

SOFTWARE DEVELOPER AND ENGINEER - RESEARCHER AND DEVELOPMENT

- Developed SwiftUI, Swift and UIKit skills.
- Gained Expertise in using Git source control tools.

## White Designer Studio (More Info)

SOFTWARE DEVELOPER AND ENGINEER - RESEARCHER AND DEVELOPMENT

- Gained expertise in team-working.
- Developed "Salema" diet app.

Personal Industrial Project

Jun 2020 - Present

Open Source Project

Jan 2020 - Present

Mashhad, Iran

Feb 2021 - Mar 2021

Mashhad, Iran

Jun 2019 - Sep 2019

## Skills

<b>Programming</b>	C/C++, Swift, Dart, Python, Javascript, Java
<b>Frameworks</b>	Flutter, SwiftUI, UIKit
<b>Web Development</b>	Bootstrap, HTML5, CSS3, JavaScript, Flutter
<b>Databases</b>	SQLite
<b>Git Hosts</b>	GitHub, GitLab, Bitbucket
<b>Typesetting</b>	Latex, Pages, Office Word
<b>Development Tools</b>	Visual Studio Code, Xcode, Android Studio
<b>General Tools</b>	Apple iWork Apps(Pages, Numbers, Keynote), Microsoft Office Apps, Adobe Photoshop,
<b>Operating Systems</b>	MacOS, Windows, Ubuntu
<b>Languages</b>	<ul style="list-style-type: none"><li>• Persian (Native)</li><li>• English (Professional Working Proficiency - IELTS exam to be taken soon)</li><li>• French (Limited Working Proficiency)</li><li>• German (Elementary Proficiency),</li><li>• Arabic (Elementary Proficiency)</li></ul>

## Honors & Awards

2018-2022 **Ranked**, top 5 students based on GPA.

Mashhad, Iran

2018 **Ranked**, top 2% students in national universities entrance exam.

Iran

2019 **1st Place**, Advanced Programming Project. (Instagram Project)

Mashhad, Iran

2019 **Qualified**, top 10 teams in Ferdowsi University of Mashhad programming contest (FCPC 2019).

Mashhad, Iran

2021 **Qualified**, Magic Cards 2 Ranked at top new apps of 2021 in **Myket Android store**.

Iran

## Certificates

### Swift 4

CERTIFICATE OF COMPLETION

Dec. 2020

Gained certificate in Sololearn Website. [\(Certificate Link\)](#)

### English Teacher Training Course (TTC)

CERTIFICATE OF COMPLETION

Jul. 2020

Absorbed abilities of teaching English as a foreign language to the children, teenagers and adults.

### C++

CERTIFICATE OF COMPLETION

Jul. 2018

Participated in C++ workshop.

### ICDL

CERTIFICATE OF COMPLETION

2012

Learned to work with Microsoft Office and windows.

# Voluntary Work

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## EXPERIENCES

2014 - 2018

- Volunteered for teaching and nursing disabled aunt.
- Volunteered for organizing and preparing IT utilities in high-school.

## References

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- BOSHRA RAJAEI - ASSISTANT PROFESSOR, SADJAD UNIVERSITY OF TECHNOLOGY, MASHHAD, IRAN. RESEARCH FELLOW, CENTRE BORELLI, ENS PARIS-SACLAY, FRANCE. EMAIL: B.RAJAEI@SADJAD.AC.IR
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