

Contact Information

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Education

- **B.Sc. Computer Engineering(Software engineering)** September 2010 - December 2014
Shiraz university, Shiraz, Iran
 - Studied 2 years at University of Tehran as a transferred student.
 - **Ranked First:** Achieved the highest GPA (**17.82 out of 20**) among all B.Sc students.

Work Experience

- **Android application and web development** April 2012 - September 2012
Cafebazaar (a famous reputable App store in Iran)

We made an android app called Divar with a website for this application, indeed It is an virtual shop which people can sell their stuff and products to each other. We used Django to make this website on a Linux server. For more information, please visit [Divar website](#) or download our application from [Bazzar](#) (It is an android app store) .
- **Participated in making English to Persian Translator** September 2011 - January 2012
Text processing Lab at University of Tehran

I worked in the lab of text processing for professor Dr.Faili.
In this lab, we made a translator to translate English to Persian and vice versa. Indeed, it was a massive project by using c++. For more information visit our translator [website](#) .

Awards & Honours

- Ranked 1st** in Computer Engineering students 2014
- Ranked 18th** in Iranian National Computer Olympiad for university student. 2014
- Ranked 4th** in Kashan ACM competition among all national universities. 2010
- Awarded as the Best Undergraduate Student** in Computer Engineering 2014
- Ranked 12th** in JAVACHALLENGE (An artificial intelligence competition at the Sharif university) among 155 teams. 2015

Teaching Experience

- **Digital Design** Shiraz university
Head Teaching Assistant to Dr. Khunjush Fall 2014
- **Finite Automata** Shiraz university
Teaching Assistant to Dr. Mansoori Fall 2014
- **Artificial Intelligence** Shiraz university
Teaching Assistant to Dr. Azimifar Spring 2014
- **Digital Design** Shiraz university
Head Teaching Assistant to Dr. Khunjush Spring 2014
- **Advanced Programming** Shiraz university
Teaching Assistant to Dr. Hamze Fall 2013
- **Compilers** Shiraz university
Head Teaching Assistant to Dr. Tahayori Fall 2013

- **Artificial Intelligence**
Teaching Assistant to Dr.Azimifar
- **Data Structures And Algorithms**
Teaching Assistant to Dr.Faili
- **Fundamentals of Computer Programming**
Project Manager to Dr.Hashemi and Dr.Moradi

Shiraz university
Fall 2013

University of Tehran
Spring 2013

University of Tehran
Fall 2012

Selected Projects

- **3D Multiplayer Game With AI** Spring 2014
Dr.Khunjush
In this project I learned how to make an online game using unity engine. This project helped me to understand how a multiplayer server works, and it made me familiar with game programming; Therefore, I could make a 3D world for a FPS(first person shooter) game, and in this game more than 100 people can play together or against a computer AI.
- **Pure P2P File Sharing Application Written in Python** Fall 2014
Mr.Tajbakhsh
In this application each peer can add other peers IP or search the Network to find peers, and when a peer finds another one, they will send their peer list to each other. Each peer can ask for a file using, file name or file hash. In this application file hash is required since peer can get a file concurrently from more than one person, and peers can resume the file they are downloading recently.
- **Control mouse with eyes or hands** Fall 2014
Dr.Azimifar
This project is about two methods to control a computer mouse. First of all, I searched to find How we can track human eyes. so I found a paper about it(click [here](#) to see the paper); Then I tried to find the eye pupil position when a person looks to 4 corners of screen, and I used these points to understand where he is looking and move the mouse to that position. (You can see the project demo by clicking [here](#)) . For hand detection project, I detected the hand color, (using 6 points on the hand); after that, I found the hand in picture and track it to move the mouse by hand movement.
- **Book Shopping Website** Spring 2013
Dr.Fakhrmahmad
We made this project in a group of 3 students. We used Django to build this website and implemented it by using MVC pattern. This project helps us to understand how to make a commercial software using software engineering techniques such as Prototyping, MVC pattern, ERD diagram.
- **Making two player 3D game in DirectX** Fall 2013
Dr.Rohani
It was a project for Graphic course. It is a two Player first person shooter game; First player can create a game on his computer, and second player can join the game on second computer over network. In this project, I became familiar with basic of networking and 3D object techniques since I made this project from beginning to end; moreover, I learned how to use animation by using skeleton in DirectX. In this game player can shoot to object or other players, and they will be destroyed after their health was finished. The game starts in Harry Potter Quidditch field.
- **GPU Efficient Image Processing** Fall 2013
Dr.Khunjush
I did this project with my classmate, Tina Khaje, regarding the slow speed of image processing specially for big images. In this project we tried to improve the speed of some image effects using GPU. first, we started using CUDA platform to implement Grayscale, Blurring, Edge detection effects. Then we used GPU optimization techniques to speed up the process, so we achieved 30x speed up for 290 MB image. After that, we learned how to use OPENCL and write our code in OPENCL platform
- **Course Management System** Spring 2012
Dr.Khosravi
This is a website based on three layers software architecture. In this project, I made a complete course management system by using J2EE. I learned how to use Hibernate, JAXB, HTML, CSS and JS.
- **Implementing Minmax and Alpha-Beta pruning in PacMan and Hex game** Fall 2012
Dr.Mirian
These 2 projects help me to understand Minmax and Alpha-Beta pruning.

- Small Game Console** Fall 2012
Dr.Fatemi
 I made it as a project for microprocessor course; So I learned how to work with GLCD, touch pad, keypad, AVR and ATMEGA 32. In this project my console had 2 games; One of them was, Tic Tak Toe, and another one was, Pong game. Both of them can be played by 2 players using touch pad or keypad.
- Snake Game With AI** Fall 2010
Dr.Hamze
 It was a 2D game which made by using C language, and I called it snake game. In my game players can eat letters and get special abilities. for example, if someone eats "PAC", he can eat other snake and gain points and length, or if he eats "BOMB", he can make a bomb. Each snake can eat heart to gain point and increase its length. My game can be played by three mods one player, two player and against AI. My project ranked 1st for it's AI (artificial intelligence) in Advanced programming class.
- Snake Robot** Spring 2005
Mr.Hshemi
 I made this robot in high school. We used servo motors, an infrared light sensor (for detecting obstacle), a wireless camera (To send back the robot vision) and an ATMEGA32 (It was the center processor of this robot, and it had to control servo motors using infrared light sensor). You can see the project demo by clicking [here](#).

Technical Skills

- Programming Languages:**
 Python, C, C++, C#, Java, SQL, Verilog
- Programming Platforms & Framework:**
 UNITY, UNREAL, CUDA, PTHREAD, OPENCV, OPENCCL
- Web Development:**
 J2EE, HTML, CSS, JAVASCRIPT, DJANGO
- Operating System:**
 Linux, Windows
- Other:**
 ANDROID, HIBERNATE, LATEX, GIT, MAVEN

Language Skills

- Persian** native
- English** fluent (TOEFL IBT 94 out of 120)

Extra Curricular Activities

- BreakTime In University** Summer 2013
Shiraz University
 BreakTime In University is a three-day conference consists of up to 50 different workshops which has been held by a group of university students from the summer of 2007 at Shiraz University. Around 300 talented high school students attend this event every summer and its goal is to help them know their skills and potentials. I had the chance to be a part of the organization team, and I had a workshop about how to make a computer game.

References

- Dr. Farshad Khunjush** Assistant Professor, Shiraz University, khunjush@cse.shirazu.ac.ir
- Dr. Zohreh Azimifar** Associate Professor, Shiraz University, azimifar@cse.shirazu.ac.ir
- Dr. Heshaam Faili** Assistant Professor, University of Tehran, hfaili@ut.ac.ir