

# Shayan Hosseini

No. 14, Tanhajou Street,  
Tehranpars 3rd Square,  
Tehran, Iran, 1653984753

Cell: +98-919-6421171  
shayan.hosseini@ut.ac.ir  
<http://www.shayanh.ir>

## Research Interests

- Distributed Systems
- Data Structures and Algorithms
- Graph Theory
- Bioinformatics

## Education

**University of Tehran, Tehran, Iran** 2015 - present  
Undergraduate student of B.Sc. in Software Engineering

- Current GPA: 16.94/20
- Related Courses: Design and Analysis of Algorithms (20/20), Data Structures and Algorithms (19.8/20), Theory of Formal Languages and Automata (19.5/20), Advanced Programming (18/20), Discrete Mathematics (18/20)

**Allameh Helli High School, Tehran, Iran** 2011 - 2015  
*Affiliated with the National Organization for the Development of Exceptional Talents (NODET),*  
Diploma in Mathematics and Physics Discipline

## Awards and Honors

**ACM-ICPC**, International Collegiate Programming Contest by ACM.

- **56<sup>th</sup> Team** in the 41<sup>th</sup> ACM ICPC World Finals, South Dakota, USA 2017
- **2<sup>nd</sup>, 2<sup>nd</sup>, 9<sup>th</sup> Team** in Regional Contests of ACM ICPC West Asia Region, Tehran site, respectively in 2017, 2016 and 2015.

**Silver Medal** in the 24<sup>th</sup> Iranian National Olympiad in Informatics 2014

Member of **National Elites Foundation**, Iran 2014 - present

## Professional Experience

**Technical Lead and Product Manager at Cafebazaar** 2017 - present  
Member of Cafebazaar infrastructure team. Aiming to provide high available and scalable services to other technical teams.  
Leading a team of 4 people to build a distributed storage service and develop our Content Delivery Network. Responsible for maintaining and developing these services and collaborating with other technical teams and companies.

**Software Engineer at Cafebazaar** 2015 - 2017  
Cafebazaar is the most popular and successful Android application store in Iran, with more than 30 million users.  
Member of app acquisition team working on application download and payment system.

**Software Developer at Sabz Biomedicals** Summer 2015  
Developing software of Gel Documentation System (An instrument for high quality visualization and recording of DNA bands).

## Teaching Experience

### Teaching Assistant

University of Tehran

- Design and Analysis of Algorithms, H. Mahini, Spring 2018
- Advanced Programming, R. Khosravi, A. Sadeghi, Fall 2017
- Discrete Mathematics, S.Mohammadi, Spring 2017
- Data Structures and Algorithms, H. Feili, Fall 2016

### IOI and ACM-ICPC related

Teaching special topics in computer science including Algorithms, Data Structures, and Graph Theory to undergraduate students preparing for ACM-ICPC as well as high school students preparing for INOI.

- University of Tehran 2017
- INOI Summer Camp, at Young Scholars Club 2015
- Allameh Helli High School 2015

## Notable Projects

**Limoo** 2017

A desktop application that shows lyrics for the current playing song, in Go and Python.

**Operating Systems Course Project** 2017

Designed CPU scheduler and system call handler for Pintos.

**Treasure Miner** 2016

An online location-based game for Android. Server application written in Go and uses gRPC for the best performance.

**CAPTCHA Farsi** 2011-2012

Generating CAPTCHA in Persian by using image processing and calligraphy methods. Can be used in Persian websites.

Awarded as Best Project in 8th NODET Young Researchers Festival.

## Skills and Qualities

### Theoretical Background:

Experienced in Design of Algorithms, Data Structures, and Discrete Mathematical fields such as Graph Theory and Combinatorics.

### Programming and Scripting:

Expert in C/C++, Go, Python, Bash-Scripting, Pascal

### Software Engineering:

Familiar with different object oriented design patterns and software development methodologies.

### Web Application Development:

Comfortable with Django, Flask, CSS3 and HTML5. Proficient in git and familiar with many other development tools.

### Site Reliability Engineering:

Expert Linux user and good at system administration. Experience in Ceph storage platform, Kubernetes, Docker, NGINX. Working knowledge in Computer Networks.

### Other:

Creative, self-motivated, eager to learn new things. Communicative and collaborative with the ability to work both independently and in a team.