

# SHAYAN HOSSEINI

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## RESEARCH INTERESTS

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

## EDUCATION

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

- Current GPA: 17.11/20
- 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), Algorithmic Graph Theory (18.5/20), Computer Networks (18.1/20), Advanced Programming (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

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**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

## TEACHING EXPERIENCE

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**Teaching Assistant**  
University of Tehran

- **Chief TA:** Design and Analysis of Algorithms, H. Mahini Fall 2018, Spring 2018
- Engineering Probability and Statistics, B. Bahrak Fall 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

## PROFESSIONAL DEVELOPMENT

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The following Coursera courses were taken to acquire skills relevant to my work and research.

- **Cloud Computing Concepts**, by University of Illinois at Urbana-Champaign
- **Biology Meets Programming**, by University of California San Diego
- **Game Theory**, by Stanford University and UBC
- **Functional Programming Principles in Scala**, by EPFL

## PROFESSIONAL EXPERIENCE

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**Technical Lead and Product Manager at Cafebazaar**, Tehran, Iran 2017 - present  
Member of infrastructure team. Aiming to provide high available and scalable services to other technical teams and later to other companies as a public cloud. Leading a team of 7 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**, Tehran, Iran 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. Responsible for system ownership of CDN and parts of Cafebazaar back-end, Interviewing new software engineer candidates and improvement of the technical interview process.

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

## NOTABLE PROJECTS

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**Network Course Project** 2018  
Designed an algorithm for detecting topology of an unknown network. Implemented in Floodlight SDN OpenFlow Controller.

**Operating Systems Course Project** 2017  
Implemented system call handler and an efficient CPU scheduler for communicating to many IO devices for Pintos.

**Limoo** 2017  
A desktop application that shows lyrics for the current playing song, server app in Go and client in Python.

**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

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

**Languages and Tools:** Expert in C/C++, Go, Python, Bash-Scripting, Pascal, SQL, Git. Working knowledge in Java, Lua, Verilog, L<sup>A</sup>T<sub>E</sub>X.

**Software Engineering:** Familiar with different object oriented design patterns and software development methodologies such as Agile and DevOps.

**Web Application Development:** Comfortable with Django, Flask, CSS3 and HTML5.

**Site Reliability Engineering:** Managed scalability and maintainability challenges in several web applications having thousands of requests per second. Expert Linux user and experienced in system administration. Experience in Ceph storage platform, Kubernetes, Docker, NGINX, Computer Networks.

**Languages:** Persian (Native), English (Full professional proficiency)

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