

# Shahryar Soltanpour

---

## CONTACT INFORMATION

Department of Electrical and Computer Engineering  
Faculty of Engineering, University of Tehran, Tehran, Iran

mobile: +98 912-034-8944  
e-mail: Shahryar.Soltanpour@gmail.com

## PERSONAL INFORMATION

Birthday: May 8<sup>th</sup>, 1997

## FIELDS OF INTEREST

Software Engineering  
Big Data

## University of Tehran, Tehran, Iran

*Bachelor of Science in Software Engineering*

**Sep. 2015 – present**

- Expected graduation date: Dec. 2019
- GPA till now: 17.36/20
- last year GPA: 18.59/20
- Selected courses (out of 20):
  - Network Security: 20
  - Introduction to Cryptocurrency: 20
  - Internet Engineering: 20
  - Software Testing: 19.1
  - Design and Analysis of Algorithms: 19.1
  - Formal Methods in Software Engineering: 18.6
  - Compiler Design and Implementation: 18.5
  - Advanced Software Design: 18.33
  - Theory of Formal Languages and Automata: 19.25

## EDUCATION

### Allame Helli School

*Diploma in Mathematics and Physics Discipline*

**2008 – 2015**

- GPA: 19.91/20

## RESEARCH EXPERIENCE

- **Undergraduate Research**(Jul. 2019 - Present):  
**Real-time verification and evaluation of algorithms efficiency in distributed actor based systems**  
Using java language to compile and run Rebeca codes with different policies and measure some metrics to find the best algorithm.  
*Rebeca* (Reactive Objects Language) is an actor-based language with a formal foundation, designed in an effort to bridge the gap between formal verification approaches and real applications. It can be considered as a reference model for concurrent computation, based on an operational interpretation of the actor model. It is also a platform for developing object-based concurrent systems in practice.  
Under supervision of **Dr. Fatemeh Ghassemi**.
- **Blockchain, CryptoCurrency and Digital Currencies**  
I've passed *Introduction to Cryptocurrency* course as my master's degree course and I got the mark 20/20. During this course, I studied several essays about Bitcoin, Ethereum and blockchain and did some computer assignments to use make Bitcoin transactions in P2PKH and P2SH modes and broadcast them to the blockchain. I also did some computer assignments to make a simple application using Solidity, web3.js and Truffle framework in order to deeply understand smart contracts.  
Under supervision of **Dr. Behnam Bahrak**.

## HONORS AND AWARDS

Ranked 241<sup>st</sup> (regional rank), and 368<sup>th</sup> (national rank) in the National Universities Entrance Examination among more than 318,000 contestants, 2015  
Ranked 3<sup>rd</sup> among Undergraduate Students in Software Engineering College and winner of FoE (Faculty of Engineering) prize, University of Tehran (2015-2017)

PROFESSIONAL  
EXPERIENCE

**Software Engineer in Cafe Bazaar**(Aug. 2019 - Present):

CafeBazaar is the most prominent Iranian company in Information Technology, having more than 40 million users.

**Divar**(Aug. 2019 - Present)

Currently, I'm working at Divar. It's the leading application for online classified ads. I develop in Python and Go.

**Software Engineer in Pegah Co. (known as Tapsell)**(Sep. 2017 - Aug. 2019):

Tapsell is the leading company in the online advertising industry in Iran

**Mediaad**(Jun2018-Aug. 2019) During my experience in Mediaad, I implemented a video player platform, helping website owners to upload and stream their video files, see statistics for each video and also earn money by showing advertisements. I also implemented the dashboard of this platform using Angular 6.

I also implemented some features in Mediaad platform, such as retargeting feature. I worked with Spring Boot and Kotlin and I got to work with big data processing tools such as Kafka streams, Elastic Search, Cassandra DB and I got familiar with Apache Spark.

**Backtory**(Jan2018-Jun2018) Backtory is a CDN, storage and streaming service provider startup. During my experience in Backtory, I worked with Spring Boot framework using Kotlin as the programming language and I became skilled in them. I also learned and worked with HAProxy and Nginx as web servers and load balancers.

**Software Engineering Intern in Rahnema College** (July 2017-Aug. 2017) :

In this cycle of Rahnema College our team launched Unagi, a location based social network application. In this project, I focused on iOS and Android application development using React-Native and React-Redux and I also focused on server-side development using Node.JS Express framework. This project gave me a chance to get to know and apply the Scrum methodology and Git VCS.

NOTABLE  
PROJECTS

- **Implement a bitcoin client to make bitcoin transactions in both P2PKH and P2SH modes using Python and Bitcoin library.**
- **Implement Splitwise application using smart contracts using technologies such as Truffle, Solidity language and web3.js**
- **Implement a compiler for an actor based language named Atalk in compiler design course**
- **Implement a web-based job offering application for Internet Engineering course. Using Java for back-end and React for front-end development.**
- **Backend development of judge website in ACM Data Analysis Contest (held by Tap30) using Laravel framework.**

TEACHING  
ASSISTANTSHIP

**Compiler Design and Implementation**

**Fall 2018**

*Instructors: Dr. Fatemeh Ghassemi and Dr. Hosein Hojjat*

Responsible for designing main project of the course in 4 phases.

**Artificial Intelligence**

**Spring 2019**

*Instructor: Dr. Mohammad Amin Sadeghi*

Responsible for designing a computer assignment for students to become familiar with naive Bayes and Bayesian network.

**Systems Analysis and Design**

**Spring 2019**

*Instructor: Dr. Fatemeh Ghassemi*

Chief TA of the course. Responsible for managing course projects, quizzes and homeworks.

**Design and Analysis of Algorithms**

**Fall 2017**

*Instructor: Dr. Hamid Mahini*

Responsible for designing a homework about complexity of algorithms.

**Theory of Formal Languages and Automata**

**Fall 2017**

*Instructor: Dr. Hakimeh Fadaei*

Responsible for designing two homeworks about regular expressions and pushdown automata.

**Engineering Statistics and Probability****Fall 2017***Instructor: Dr. Behnam Bahrak*

Responsible for correction of a homework about conditional probability.

**Data Structure and Algorithms****Spring 2018***Instructor: Dr. Fathieh Faghieh*

Responsible for designing a computer assignment about basic data structures and implementing them.

**Data Structure and Algorithms****Fall 2017***Instructor: Dr. Hesham Faili*

Responsible for designing a computer assignment about graphs, DAGs and trees.

LANGUAGE

Persian: Native

SKILLS

English: Advanced

SOFTWARE

**Programming:**

SpringBoot: 4/5

Kotlin: 4/5

Java: 4/5

KafkaStreams: 3/5

NoSQLs(MongoDB, Cassandra, Redis): 3/5

ElasticSearch: 3/5

MySQL:3/5

Docker: 2/5

Antlr: 3/5

Apache Spark: 1/5

Angular: 2.5/5

C, C++: 3/5

Javascript: 4/5

Python:3/5

Django: 3/5

Golang: 2/5

HTML,CSS: 2/5

React,React Native,React Redux : 3/5

Node.JS: 2/5

**Tools:**Git, L<sup>A</sup>T<sub>E</sub>X**Agile Methodology** : Scrum**Simulation:** Multisim,Modelsim, Quartus II, Pspice, Logic Gate Simulator