

# Sepehr Abdous

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📁 sepehrabdous.github.io/

## Education

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### Academic Qualification.....

#### Sharif University of Technology

**BSc, GPA: 17.06/20**

School of Computer Engineering, Majoring in Information Technology

**Thesis topic:** Evaluation of Load-Balancing Algorithms in NDN Networks

**Tehran**

2014 - 2019

#### Rahyar Highschool

**Diploma, GPA: 19.58/20**

Mathematics and Physics

**Tehran**

2010–2014

### Notable selected courses.....

- Computer Workshop (4/4)
- Fundamentals of Programming (4/4)
- Logic Design (4/4)
- Logic Design Lab (4/4)
- Dynamics of Discrete Systems (4/4)
- Computer Structure (4/4)
- Advanced Programming (4/4)
- Fundamentals of IT ( 4/4)
- Mathematical Statistics (4/4)
- Numerical Computation (4/4)
- Data Structures (4/4)
- Computer Architecture Lab (4/4)
- Introduction to Linear Algebra (4/4)
- Design of Algorithms (4/4)
- Operating Systems (4/4)
- IT Project Management (4/4)
- Fundamentals of Electric and Electronic Design (4/4)
- Digital System Design (4/4)
- Web Programming (4/4)
- Operating System Lab (4/4)
- Digital System Design Lab (4/4)
- Computer Networks (4/4)
- Computer Networks Lab (4/4)
- System Analysis and Design (4/4)

- *Electronic Commerce (4/4)*
- *Multimedia Systems (4/4)*

#### Publications.....

- *Marvasti S. , **Abdous S.** , Majidi N. , A review and analysis of stock price forecasting using a combined approach: machine learning with candlesticks on NASDAQ and NYSE (Submitted), (Can be approved by the supervisor: salman\_marvasti@yahoo.co.uk)*

## Research Concentration

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- Computer Security
- Computer Networks
- Data Science
- Software Engineering

## Experiences

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#### Teaching Experiences.....

<b>Mathematical Statistics(TA)</b> <i>Dr Sharifi Zarchi</i> Fall 2018	<b>Tehran</b> <i>Sharif University of Technology</i>
<b>Data Structure(TA)</b> <i>Dr Ghodsi</i> Fall 2018	<b>Tehran</b> <i>Sharif University of Technology</i>
<b>Computer Structure(TA)</b> <i>Dr Asadi</i> Fall 2018	<b>Tehran</b> <i>Sharif University of Technology</i>
<b>Fundamentals of Operating Systems(TA)</b> <i>Dr Jalili</i> Fall 2018	<b>Tehran</b> <i>Sharif University of Technology</i>
<b>Information Technology Project Management(TA)</b> <i>Eng. Abtahi</i> Fall 2018	<b>Tehran</b> <i>Sharif University of Technology</i>
<b>Data Structure(TA)</b> <i>Dr Sharifi Zarchi</i> Spring 2018	<b>Tehran</b> <i>Sharif University of Technology</i>
<b>Numerical methods(TA)</b> <i>Dr Gharib</i> Spring 2018	<b>Tehran</b> <i>Sharif University of Technology</i>

**Fundamentals of Operating Systems(TA)***Dr Jalili*

Spring 2018

**Tehran***Sharif University of Technology***Fundamentals of Operating Systems(TA)***Dr Jalili*

Fall 2017

**Tehran***Sharif University of Technology***Advanced Programming in Java(Head TA)***Dr Marvasti*

Spring 2017

**Tehran***Sharif University of Technology***Advanced Programming in Java(Head TA)***Dr Marvasti*

Fall 2016

**Tehran***Sharif University of Technology***Data Structure(TA)***DrJamzad*

Fall 2016

**Tehran***Sharif University of Technology***Advanced Programming in Java(TA)***Dr Marvasti*

Spring 2016

**Tehran***Sharif University of Technology***Fundamentals of Programming(TA)***Dr Gheibi*

Fall 2015

**Tehran***Sharif University of Technology***Work Experiences.....****HPDS(High Performance Data Storage) Company***Intern*

Responsible of automating the system update process by the use of python and system FIO tests

**Spring 2018***Tehran***Darmaneh Company***Android Developer*

Responsible of developing the Android app

**2016***Tehran***Darmaneh Company***React Native Developer*

Responsible of developing the Android and IOS app by using React Native

**2017 & 2018***Tehran***Sharif University of Technology***Translator*

Cooperating with Eng. Abtahi from Sharif University of Technology in Translating the book of Information Overload written and edited by Judith B.Strother, Jan M. Ulijn and Zohra Fazal

**2018***Tehran*

## Research Experiences.....

### **Creating an NDN-based AR browser** **Summer 2018**

*UCLA REMAP group, Summer Internship at UCLA*

*Los Angeles, CA*

Worked as an intern with UCLA REMAP group under the supervision of Prof. Jeff Burke and participated in some tasks of creating an AR-enabled browser from chromium which connects to the machine learning and content servers using NDN as the base network architecture.

<https://remap.ucla.edu/category/team/>

### **Experiment Development** **2017**

*Developing experiments on NDN P4*

*Tehran*

Worked with mini-NDN and P4 to create different experiments under the supervision of Dr. Hamed Yousefi from the University of Michigan

### **Proximity-Aware Balanced Allocation in NDN networks** **2017 - 2019**

*BSc Thesis*

*Tehran*

Worked to figure out a way of load balancing regarding the communication cost as well in NDN networks under the advice of Dr. Gharib and supervision of Prof. Movaghar from Sharif University of Technology

### **Stock market prediction** **2017 - 2019**

*Stock market analysis using machine learning*

*Tehran*

Worked under the supervision of Dr. Marvasti to use event detection and Tensorflow to predict stock market prices

## Honors

**Ranked 387 among more than 260000 participants in nationwide university entrance exam.** **Tehran**  
2014

**Admission to Sharif University of Technology.** **Tehran**  
2014

## Community Involvement

- IEEE Community
- ACM Community

## Skills

### Computer.....

- ndn-SIM: NDN network simulating tool
- mini-NDN: NDN network simulating tool
- NDN-p4
- JAVA
- Python
- C
- C#

- Android
- HTML
- React Native
- MongoDB
- CSS
- JS
- MySQL
- Linux
- Git
- Microsoft project

Language.....

**Persian:** native

**English:** Fluent - IELTS Band Score: 7.5

2018

English Language Exam Results.....

**IELTs:**

- Listening: 8.5
- Reading: 7.5
- Writing: 6
- Speaking: 7
- Band Score: 7.5

**GRE:**

- Verbal Reasoning: 145
- Quantitative Reasoning: 167
- Analytical Writing: 3.5

## References

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- **Dr. Ali Movaghar**, Professor at Sharif University of Technology  
**Email:** movaghar@sharif.edu  
**Webpage:** <http://sina.sharif.ac.ir/~movaghar/>
- **Dr. Jeff Burke**, Professor at UCLA  
**Email:** jburke@remap.ucla.edu  
**Email:** jburke@ucla.edu  
**Webpage:** <http://www.tft.ucla.edu/2011/09/faculty-jeff-burke/>  
**Webpage:** <http://jeff-burke.com/bio/>
- **Dr. Hossein Asadi**, Associate Professor at Sharif University of Technology  
**Email:** asadi@sharif.edu  
**Webpage:** <http://sharif.edu/~asadi/>
- **Dr. Mansour Jamzad**, Associate Professor at Sharif University of Technology  
**Email:** jamzad@sharif.edu  
**Webpage:** <http://sina.sharif.edu/~jamzad/>
- **Dr. Mohammed Gharib**, Lecturer at Sharif University of Technology

**Email:** gharib@ce.sharif.edu

**Webpage:** <http://ce.sharif.edu/~gharib/>

- **Eng. Seyed Ebrahim Abtahi**, Assistant Professor at Sharif University of Technology

**Email:** abtahi@sharif.edu

**Webpage:** <http://sharif.edu/~abtahi/>

- **Dr. Ali Sharifi-Zarchi**, Assistant Professor at Sharif University of Technology

**Email:** asharifi@sharif.ir

- **Dr. Salman Alim Marvasti**

**Email:** technoorconsulting@googlemail.com

**Email:** salman\_marvasti@yahoo.co.uk