

Sepehr Abdous

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📄 sepehrabdous.github.io/

Education

Academic Qualification.....

Sharif University of Technology

BSc, Current GPA: 3.71/4 - 17.13/20

School of Computer engineering, Majoring in information technology engineering

Thesis topic: Proximity-Aware Balanced Allocation in NDN networks

Tehran

2014–PRESENT

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” (In Preparation), (Can be approved by the supervisor: salman_marvasti@yahoo.co.uk)*

Research Concentration

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

Experiences

Teaching Experiences.....

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

Working as a developer of NFD(Named data network Forwarding Daemon)

<https://github.com/named-data/NFD/blob/master/CONTRIBUTING.md>**2018****Sharif University of Technology***Translator***2018***Tehran*

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

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 - Present**

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 - Present**

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

Future Skills Planned.....

- GRE exam will be taken on October

References

- **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