# Sepehr Abdous

# **Education**

Academic Qualification.

# Johns Hopkins University PhD Baltimore 2019-Present

School of Computer Science, Majoring in Computer Networks

Sharif University of Technology

**BSc**, **GPA**: **17.06/20** 2014 - 2019

**Tehran** 

School of Computer Engineering, Majoring in Information Technology **Thesis topic:** Evaluation of Load-Balancing Algorithms in NDN Networks

Rahyar Highschool Tehran
Diploma, GPA: 19.58/20 2010–2014

Mathematics and Physics

#### 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)

# **Research Concentration**

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

# **Experiences**

Teaching Experiences.

Mathematical Statistics(TA)

Tehran

Dr Sharifi Zarchi Sharif University of Technology

Fall 2018

Data Structure(TA)

Tehran

Dr Ghodsi Sharif University of Technology

Fall 2018

Computer Structure(TA) Tehran

Dr Asadi Sharif University of Technology

Fall 2018

Fundamentals of Operating Systems(TA)

Tehran

Dr Jalili Sharif University of Technology

Fall 2018

Information Technology Project Management(TA)

Tehran

Eng. Abtahi Sharif University of Technology

Fall 2018

Data Structure(TA)

Tehran

Dr Sharifi Zarchi Sharif University of Technology

Spring 2018

Numerical methods(TA)

Tehran

Dr Gharib Sharif University of Technology

Spring 2018

Fundamentals of Operating Systems(TA)

Tehran

Dr Jalili Sharif University of Technology

Spring 2018

Fundamentals of Operating Systems(TA)

Tehran

Dr Jalili Sharif University of Technology

Fall 2017

Advanced Programming in Java(Head TA)

Tehran

Dr Marvasti Sharif University of Technology

Spring 2017

Advanced Programming in Java(Head TA)

Tehran

Dr Marvasti Sharif University of Technology

Fall 2016

Data Structure(TA)

Tehran

DrJamzad Sharif University of Technology

Fall 2016

Advanced Programming in Java(TA)

Tehran

Dr Marvasti Sharif University of Technology

Spring 2016

Fundamentals of Programming(TA)

Tehran

Dr Gheibi Sharif University of Technology

Fall 2015

Work Experiences

HPDS(High Performance Data Storage) Company Spring 2018

*Tehran* 

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

Darmaneh Company 2016

Android Developer Tehran

Responsible of developing the Android app

Darmaneh Company 2017 & 2018

React Native Developer Tehran

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

Sharif University of Technology 2018

Translator Tehran

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

Research Experiences.

Creating an NDN-based AR browser Summer 2018

reating an NDN-based AR browser

Summer 2018

UCLA REMAP group, Summer Internship at UCLA Los Angeles, CA

Wroked 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

Wroked 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 advision 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**

#### **CTF Contest Winner**

**Baltimore** 

2019

Involved in the team winning the CTF contest designed by Northrop Grumman in the hophacks hackethon.

#### **University Entrance Exam Ranking**

**Tehran** 

2014

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

#### Admission to Shairf University of Technology.

**Tehran** 

2014

# **Community Involvement**

- IEEE Community
- ACM Community

# **Skills**

#### Computer

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

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

Language.....

Persian: native

English: Fluent - IELTs Band Score: 7.5

English Language Exam Results....

#### IELTs:

Listening: 8.5Reading: 7.5Writing: 6Speaking: 7

o Band Score: 7.5

GRE:

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

### References

o Dr. Ali Movaghar, Professor at Sharif University of Technology

Email: movaghar@sharif.edu

Webpage: http://sina.sharif.ac.ir/~movaghar/

o 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/

o 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/

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

Email: abtahi@sharif.edu

Webpage: http://sharif.edu/~abtahi/

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

Email: asharifi@sharif.ir

## o Dr. Salman Alim Marvasti

**Email**: technoorconsulting@googlemail.com **Email**: salman\_marvasti@yahoo.co.uk