

Sepehr Abdous

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Education

Academic Qualification.....

Johns Hopkins University

PhD

School of Computer Science, Majoring in Computer Networks

Baltimore

2019-Present

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)*

Research Concentration

- Computer Networking
- Large Scale Computing
- Mitigating Microbursts in Large Data Centers

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) <i>Dr Jalili</i> Spring 2018	Tehran <i>Sharif University of Technology</i>

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

Spring 2018

Tehran

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

Darmaneh Company

Android Developer

2016

Tehran

Responsible of developing the Android app

Darmaneh Company

React Native Developer

2017 & 2018

Tehran

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

Research Experiences.....

Creating an AR-enabled NDN-based browser

UCLA REMAP group, Summer Internship at UCLA

Summer 2018

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 server 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

Finalist in Maryland Cyber Challenge

Baltimore

2019

Involved in one of the finalist teams (Alice Bob) in Maryland cyber challenge.

CTF Contest Winner

Baltimore

2019

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

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.....

- mini-NDN: NDN network simulating tool
- JAVA
- Python
- C
- Android
- React Native
- HTML
- CSS

- JS
- Git
- Microsoft project
- omnet++

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

- **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