Sepehr Abdous

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Education

Academic Qualification

Sharif University of Technology   **Tehran**
BSc, Current GPA: 3.71/4 - 17.13/20   *2014–PRESENT*
School of Computer engineering, Majoring in information technology engineering
Thesis topic: Proximity-Aware Balanced Allocation 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)*

o *Multimedia Systems (4/4)*

Research Concentration

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

Experiences

Teaching Experiences

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**
Intern *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

NFD Development Team **2018**
Developer
Working as a developer of NFD(Named data network Forwarding Daemon)
`https://github.com/named-data/NFD/blob/master/CONTRIBUTING.md`

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**
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.

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 - Present**
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 - 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 Shairf University of Technology. **Tehran**
2014

Community Involvement

- IEEE Community
- ACM Community

Skills

Computer..

- ndn-SIM: NDN network simulating too
- 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