Sepehr Abdous

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Education

Academic Qualification

Johns Hopkins University   **Baltimore**
PhD   *2019-Present*
School of Computer Science, Majoring in Computer Networks

Sharif University of Technology   **Tehran**
BSc, GPA: 17.06/20   *2014 - 2019*
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

Research Concentration

- Large scale computing
- Computer Networks
- Mitigating micro-bursts in large data centers

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**
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

Research Experiences..

Handling μbursts in data centers   **2019 - present**
HopNets group, Johns Hopkins University   *Baltimore, MD*
Supervised by Prof. Soudeh Ghorbani, I work on developing approaches for handling bursts with μsecond granularity, namely μbursts, in large data centers.

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.
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

- Omnet++ network simulator + INET framework
- 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