

Sepehr Abdous

✉ sabdous1@jh.edu • 🌐 sepehrabdous.github.io

Education

Johns Hopkins University
PhD

School of Computer Science

Baltimore
2019-Present

Sharif University of Technology
BSc, GPA: 17.06/20

School of Computer Engineering

Tehran
2014 - 2019

Area of research

My main field of research focuses on ways of measuring and resolving microsecond-scale congestion events, known as **microbursts**, in large datacenters. Currently, I am probing packet deflection, i.e., re-routing the packets forwarded to a congested port instead of dropping them, as a potential solution to microbursts.

In the past, I have spent some time probing **Named Data Networking (NDN)** as a new architecture proposed for the network layer that tries to resolve the limitations of IP-based architecture using names instead of IPs.

Work Experience

CCC Intelligent Solutions Company
Intern

I designed and implemented a technique to increase the speed of data migrations between company's remote storage servers.

2022

Chicago, US

HPDS(High Performance Data Storage) Company
Intern

Responsible for automating the system update process and conducting system FIO tests

2018

Tehran, Iran

Darmaneh Company

Android and IOS Developer

Darmaneh was a startup which focused on creating a platform for online medical visits. I was responsible for developing the Android and IOS app using Java, Android Studio, and React Native.

2016-2018

Tehran, Iran

Skills

- **Technical Skills:** Datacenter networking, Network simulation and hardware implementation
- **Programming Languages:** C, C++, Python, Java, Shell script
- **Tools:** Omnet++, Git, Latex, Ansible

Publications

Papers.....

Burst-tolerant Datacenter Networks with Vertigo 2021
*Sepehr Abdous**, Erfan Sharafzadeh*, Soudeh Ghorbani (*Equal contribution)
CoNEXT 2021

Stock price forecasting using machine learning with event detection on candlestick 2018
Salman Marvasti, *Sepehr Abdous*, Negin Majidi
File available in Researchgate

Posters.....

Vertigo: A Priority-aware Burst-tolerant Datacenter Fabric 2021
Sepehr Abdous, Erfan Sharafzadeh, Sougol Gheissi, Soudeh Ghorbani
16'th Coordinated Science Laboratory Student Conference (CSLSC) *Virtual*

Valinor: Transport-Agnostic Packet Prioritization and Ordering at the Edge 2021
Erfan Sharafzadeh, *Sepehr Abdous*, Sougol Gheissi, Soudeh Ghorbani
16'th Coordinated Science Laboratory Student Conference (CSLSC) *Virtual*