

# Sepehr Abdous

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📄 sepehrabdous.github.io

## Education

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**Johns Hopkins University**

*PhD*

School of Computer Science

**Baltimore**

*2019-Present*

**Johns Hopkins University**

*M.Eng, GPA: 3.81/4*

School of Computer Science

**Baltimore**

*2019-2023*

**Sharif University of Technology**

*BSc, GPA: 17.06/20*

School of Computer Engineering

**Tehran**

*2014 - 2019*

## Area of research

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My main field of research focuses on ways of measuring and resolving transient congestion events, known as **bursts**, 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 burstiness.

## Work Experience

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**CCC Intelligent Solutions Company**

*Intern*

I designed and implemented a technique to increase the speed of data migrations between the 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 company which focused on creating a platform for online medical visits. I was responsible for developing the Android and IOS application.

**2016-2018**

*Tehran, Iran*

## Skills

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- **Technical Skills:** Datacenter networking, Network simulation and hardware implementation
- **Programming Languages:** C, C++, Python, Java, P4

- **Tools:** Omnet++, Git, Latex, Ansible

## Publications

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### Papers.....

- Practical Packet Deflection in Datacenters** 2023  
*Sepehr Abdous, Erfan Sharafzadeh, Soudeh Ghorbani*  
CoNEXT 2023
- Understanding the impact of the host networking elements on traffic bursts** 2023  
*Erfan Sharafzadeh, Sepehr Abdous, Soudeh Ghorbani*  
NSDI 2023
- 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.....

- Implementable selective deflection with Canary** 2023  
*Sepehr Abdous, Erfan Sharafzadeh, Soudeh Ghorbani*  
NSDI 2023
- 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)
- 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)

## Professional Service

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- Journal Reviewer for Computer Networks (2022-2023)
- Journal Reviewer for Journal of Network and Computer Applications (2022-2023)
- Journal Reviewer for Ad Hoc Networks (2022-2023)