Sepehr Abdous

sabdous1@jh.edu − sepehrabdous1375@gmail.com

© sepehrabdous.github.io

Education

Johns Hopkins University

PhD

Baltimore

2019-Present

School of Computer Science

Johns Hopkins University

M.Eng, GPA: 3.81/4

Baltimore
2019-2023

School of Computer Science

Sharif University of Technology

BSc, GPA: 17.06/20

Tehran
2014 - 2019

School of Computer Engineering

Area of research

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

Microsoft
Consulting researcher
Baltimore, USA

As a consulting researcher, I work with Dr. Kabbani and Dr. Ghalayini to design and deploy fast and scalable networking protocols.

CCC Intelligent Solutions Company

2022

2018

Intern Chicago, USA

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

HPDS(High Performance Data Storage) Company

Intern Tehran, Iran

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

Darmaneh Company 2016-2018

Android and IOS Developer Tehran, Iran

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.

Skills

- Technical Skills: Datacenter networking, Network simulation and hardware implementation
- Programming Languages: C, C++, Python, Java, P4
- Tools: Omnet++, Git, Latex, Ansible

Publications

Papers	
Practical Packet Deflection in Datacenters Sepehr Abdous, Erfan Sharafzadeh, Soudeh Ghorbani CoNEXT 2023	2023
Understanding the impact of the host networking elements on traffic bursts Erfan Sharafzadeh, Sepehr Abdous , Soudeh Ghorbani NSDI 2023	2023
Burst-tolerant Datacenter Networks with Vertigo Sepehr Abdous*, Erfan Sharafzadeh*, Soudeh Ghorbani (*Equal contribution) CoNEXT 2021	2021
Stock price forecasting using machine learning with event detectionon candlestick Salman Marvasti, Sepehr Abdous, Negin Majidi File available in Researchgate	2018
Posters.	
Implementable selective deflection with Canary Sepehr Abdous, Erfan Sharafzadeh, Soudeh Ghorbani NSDI 2023	2023
Vertigo: A Priority-aware Burst-tolerant Datacenter Fabric Sepehr Abdous, Erfan Sharafzadeh, Sougol Gheissi, Soudeh Ghorbani 16'th Coordinated Science Laboratory Student Conference (CSLSC)	2021
Valinor: Transport-Agnostic Packet Prioritization and Ordering at the Edge Erfan Sharafzadeh, Sepehr Abdous, Sougol Gheissi, Soudeh Ghorbani 16'th Coordinated Science Laboratory Student Conference (CSLSC)	2021

Professional Service

- Journal Reviewer for Computer Networks (2022-2024)
- o Journal Reviewer for Journal of Network and Computer Applications (2022-2024)
- Journal Reviewer for Ad Hoc Networks (2022-2023)