

MALEEHA MASOOD

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EDUCATION

University of Illinois Urbana-Champaign, Illinois, USA Doctor of Philosophy, Computer Science Advisors: Indranil Gupta and Deepak Vasisht Selected Courses: Distributed Systems, Advanced Distributed Systems, Cloud Storage Systems, Fault Tolerant Distributed Algorithms, Advanced Operating Systems	Aug 2021- present
Lahore University of Management Sciences, Lahore, Pakistan Bachelor of Science, Computer Science Advisors: Ihsan Ayyub Qazi and Zafar Ayyub Qazi CGPA: 3.96/4.00, On Dean's List and Merit Scholarship for 4 years Selected Courses: Distributed Systems, Topics in Internet Research, Machine Learning, Network-Centric Computing, Multi-agent Systems	Aug 2017- Jun 2021

PUBLICATIONS

[Preparing to Submit] Designing CDNs for Short Video Delivery Applications <i>Maleeha Masood, Indranil Gupta, Deepak Vasisht</i>	
[Mobicom '23] <u>Transmitting, Fast and Slow: Scheduling Satellite Traffic through Space and Time</u> <i>Bill Tao, Maleeha Masood, Indranil Gupta, Deepak Vasisht</i>	
[JMIR '21] <u>Technology, Privacy, and User Opinions of COVID-19 Mobile Apps for Contact Tracing: Systematic Search and Content Analysis</u> <i>Mahmoud Elkhodr, Omar Mubin, Zainab Iftikhar, Maleeha Masood, Belal Alsinglawi, Suleman Shahid, Fady Alnajjar</i>	

RESEARCH EXPERIENCE

University of Illinois at Urbana Champaign, Illinois, USA Short Video Delivery Applications and Systems	Oct 2022 - present
<ul style="list-style-type: none">Working towards a specialized CDN design for short video applications like TikTok Mobile Models	Sep 2021- May 2023
<ul style="list-style-type: none">Explored the splitting of several ML models across heterogeneous computing devices Satellite Networking	Sep 2021- Oct 2022
<ul style="list-style-type: none">LEO Satellites are continuously taking images of the Earth however, handling this data is difficult due to the time needed to deal with terabytes of data. With the growing number of LEO sats, we propose a scheduling algorithm to reduce downlinking time. Lahore University of Management Sciences, Lahore, Pakistan Social Acceptance of Agricultural Innovation (Supervisor: Dr. Hassan Jaleel)	Jun 2021- Aug 2021
<ul style="list-style-type: none">Analyzed local Pakistani farmers on Social Media Platforms adopting a new method of agriculture to obtain information about social acceptance of innovative techniques. Heterogenous and Inclusive Federated Learning (Supervisor: Dr. Ihsan and Zafar Ayyub Qazi)	Jun 2020- May 2021
<ul style="list-style-type: none">Modified models using reduction techniques to facilitate the participation of slow and heterogenous devices in the Federated Learning Framework COVID-19 Mobile Apps for Contact Tracing (Supervisor: Dr. Suleman Shahid)	Jun 2020- Aug 2020
<ul style="list-style-type: none">Reviewed and analyzed COVID Contact Tracing Applications from a privacy perspective. Published work at Journal of Medical Internet Research.	

SELECTED AWARDS

Sohaib and Sara Abbasi Computer Science Fellowship	2021 - present
Travel Grant to SOSP (received but declined)	2023
N2 Women Travel Grant to Mobicom	2023
Travel Grant to NSDI	2023
Travel Grant to OSDI	2022
Erasmus Mundus Joint Master Degrees Student Scholarship (received but declined)	2021

TEACHING ASSISTANTSHIP EXPERIENCE

University of Illinois at Urbana Champaign, Illinois, USA	Nov 2023
<i>Lead Coursera TA of CS425 Distributed Systems</i>	Aug 2023 - present
Lahore University of Management Sciences, Lahore, Pakistan	
<i>Head TA of CS382 Network-Centric Computing</i>	Jan 2021 – May 2021
<i>CS334 Principles and Techniques of Data Science</i>	Sep 2020 – Dec 2020
<i>CS202 Data Structures</i>	Jan 2020 – May 2020
<i>CS210 Discrete Mathematic</i>	Sep 2019 – Dec 2019

PROGRAMMING SKILLS

- C++, Golang, Python
 - Tensorflow, Jupyter Notebooks
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SELECTED COURSE PROJECTS

University of Illinois at Urbana Champaign, Illinois, USA	
<i>Block Devices – CS598 Cloud Storage Systems</i>	Aug 2022- Dec 2022
<ul style="list-style-type: none">• Worked with block storage devices to improve write latency in ext4 file system	

SERVICE

Organized and Moderated Faculty Session at the SysNet Mini-Retreat at UIUC	Nov 2023
TPC at ACM S3 Workshop	Oct 2023
Organized and Moderated Student Session at the SysNet Retreat at UIUC	May 2023

STUDENTS I MENTOR AT UIUC

Ananya Anand (BS Computer Science)
Colin Lane (BS Computer Engineering)
Eric Magutu (Remote iCAN Student at UIUC)
Sarah Tanveer (Research Intern from LUMS Class of 2023)
Shreya Kannan (BSLAS, Computer Science + Economics)
