MUHAMMAD HASEEB

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https://haseeblums.github.io

EDUCATION

Ph.D. Computer Science   **Sept. 2021 – Present**
New York University, New York, USA
Research Focus: Networks, Distributed Systems, Microservices' Observability & Security
Advisor: Anirudh Sivaraman
CGPA: 4.0/4.0

Bachelor of Science, Computer Science   **Sept. 2016 – May 2020**
Lahore University of Management Sciences (LUMS), Lahore, Pakistan
CGPA: 3.69/4.0

RESEARCH PAPERS

To Block or Not To Block: Accelerating Mobile Webpages On-The-Fly Through JavaScript Classification
ICTD 2022 (Presented the paper in Seattle, Washington) | [Link]
*Authors: M Chaqfeh, **M Haseeb**, W Hashmi, P Inshuti, M Ramesh, M Varvello, F Zaffar, L Subramanian, Y Zaki*

Using Application Layer Banner Data To Automatically Identify IoT Devices
ACM Sigcomm CCR 2020 | [Link]
*Authors: T Javed, **M Haseeb**, M Abdullah, M Javed*

RESEARCH PROJECTS

Data Management System For Data Generated By Distributed Tracing Systems
● Designed a data management system that uses cheap cloud storage for storing trace data
● Designed a data layout amenable to fast retrieval of traces from cloud storage
● Designed indices specialized for querying traces based on their graph structures
● Achieved query latency 60% better than the state-of-the-art distributed tracing systems

Service Mesh Based Microservices Authorization For Byzantine Environments
● Designed a new access control system, Path Aware Access Control that takes into account the path a user request follows in a microservices application before allowing it to access some microservice(s)

PROFESSIONAL EXPERIENCE

Software Engineer at PosterMyWall   **June 2020 – August 2021**
● Secured the product website by eliminating critical security vulnerabilities (XSS, CSRF, IDOR, potential Brute Force Attacks)
● Created a disaster recovery mechanism for the company's infrastructure hosted on AWS
● Setup CI/CD pipeline along with a testing infrastructure
● Worked with various AWS services: EC2, S3, CloudFormation, CloudWatch, CodeDeploy

GitHub: https://github.com/HaseebLUMS