ROHAIL ASIM

+1 (917) 891 7092 ⋄ New York, NY ⋄ rohail.asim@nyu.edu ⋄ rohailasim.com ⋄ linkedin.com/in/rohail-asim

EDUCATION

PhD in Computer Science, New York University — Expected 2025
Relevant Coursework: Advanced Algorithms, Advanced Database Systems, Distributed Systems
CGPA: 3.92

Bachelor of Computer Science, Lahore University of Management Science (LUMS) — 2015 - 2019
Relevant Coursework: Network Centric Computing, Distributed Systems, Network Security, Advanced Programming, Software Engineering, Computer Graphics, Artificial Intelligence, Databases, Algorithms, Data Structures
CGPA: 3.70 (*Graduated with Distinction*)

SKILLS

Languages	Python, C, C++, JavaScript, TypeScript, GoLang, HTML, CSS, Matlab, MySQL
Familiar	Haskell, PHP, Assembly

EXPERIENCE

Graduate Research Assistant — Sep 2020 - Present
New York University — *New York, USA*

- Conducted a comprehensive study on the impact of generative AI on educational institutions
- Implemented a TCP-based network Congestion Control (CC) protocol in C, for VR/AR applications, that uses an unsupervised ML approach to outperform current protocols by up to 80%
- Developed a framework for the evaluation of CC algorithms in next-generation network environments, using tools like Mahimahi and NS-3, in a repeatable and reproducible manner

Software Engineer (Full Stack) — Jan 2020 - Aug 2020
Educative Inc. — *Lahore, PAK*
Educative is an ed-tech platform with over 2 million users that provides interactive and adaptive courses for software developers

- Migrated platform to Next.js to utilize server-side rendering (SSR) and client-side caching to drastically improve page load times and SEO
- Created a Design System using Material-UI in TypeScript saving up to 50% of a developer's time to build UI components
- Increased test coverage to 70% (from 25%) using a testing infrastructure based on Jest, Unittest, and Selenium

Research Assistant — June 2019 - Dec 2019
Technology for People Initiative (TPI) - LUMS — *Lahore, PAK*

- Trained an ML model for OLX, a global online marketplace, to analyze consumer behavior and isolate patterns unique to serious buyers
- Worked with Mobilink Jazz, a leading mobile network operator in Pakistan, to model and understand urban mobility patterns in Pakistan using Call Detail Record (CDR) data

RELEVANT PUBLICATIONS

[1] Impact of Congestion Control on Mixed Reality Applications. Proceedings of the 2024 SIGCOMM Workshop on Emerging Multimedia Systems

[2] SONIC: Connect the Unconnected via FM Radio & SMS. Proceedings of the 20th International Conference on emerging Networking EXperiments and Technologies