ROHAIL ASIM

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EDUCATION

PhD in Computer Science, New York University   Expected 2025
Relevant Coursework: Advanced Algorithms, Databases, Distributed Systems
CGPA: 3.91

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*

- 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
- Conducted a comprehensive study on the impact of generative AI on educational institutions

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] Perception, performance, and detectability of conversational artificial intelligence across 32 university courses. Scientific Reports 13, 12187 (2023)

[2] Towards a World Wide Web without digital inequality. Proceedings of the National Academy of Sciences of the United States of America, 120.