

Education	Department of Computer Science, Duke University Ph.D. Scholar, Computer Science (expected May 2022) <ul style="list-style-type: none">• Advisor: Prof. Bruce Maggs	08/2017 – Present
	National University of Sciences and Technology (NUST), Pakistan Bachelor of Engineering, Software Engineering <ul style="list-style-type: none">• CGPA: 3.68, Major Coursework: 3.81• Senior Design Project: Differentiated Services over SDN-IXP	09/2010 – 06/2014
Work Experience	Akamai Technologies, New York Intern, Performance Engineer <ul style="list-style-type: none">• Derived and compared different methods for inversion of the footprint descriptor calculus• Worked in Python, C, and Hadoop to analyze large traffic logs from Akamai production cache servers	05/2018 – 08/2018
	Arbisoft, Lahore, Pakistan Software Engineer <ul style="list-style-type: none">• Full-stack web development on Django & Backbone for insurify.com• Designed extensible modules for XML & JSON processing and generation• Automated customer engagement and service through Natural Language Processing on text messages	09/2015 – 07-2017
	Laboratory of Communications, Networks & Multimedia, NUST Summer Undergraduate Researcher <ul style="list-style-type: none">• Added analytics features to BISmark network dashboard, a research project funded by the NSF and Google• Deployed BISmark public server at NUST	06/2013 – 09/2013
	Smart Machines & Robotics Technology Lab, NUST Undergraduate Researcher <ul style="list-style-type: none">• Engineered machine learning and evaluation components of Tele-Surgical Robotic Simulation (TSRS)• Organized evaluation experiment for TSRS	12/2012 – 05/2013
	Duke University Teaching Assistant, UG Operating Systems	08/2018 – 12/2018
Teaching Experience	Duke University Teaching Assistant, UG Operating Systems	01/2018 – 05/2018
Publications	Gearing up for the 21st Century Space Race <i>D. Bhattacharjee, W. Aqeel, I. Bozkurt, A. Aguirre, B. Chandrasekaran, P. Godfrey, G. Laughlin, B. Maggs, A. Singla</i> ACM HotNets 2018	
	Dissecting Latency in the Internet's Fiber Infrastructure <i>I. Bozkurt, W. Aqeel, D. Bhattacharjee, B. Chandrasekaran, P. Godfrey, G. Laughlin, B. Maggs, A. Singla</i> Pre-submission draft on arXiv	

cISP: A Speed-of-Light Internet Service Provider

D. Bhattacharjee, S. Iyotbi, I. Bozkurt, M. Tirmazı, W. Aqeel, A. Aguirre, B. Chandrasekaran, P. Godfrey, G. Laughlin, B. Maggs, A. Singla

Pre-submission draft on [arXiv](#)

Volunteering

Instructed children on basic computer skills and career opportunities in IT at:

02/2014 – 06/2014

- TABA Youth Chapter, Pakistan
- NUST Community Services Club, Pakistan
- Project Irtiqā, Pakistan

Awards and Honors

- | | |
|---|-------------|
| • Duke University Graduate School Fellowship | 2017 – 2019 |
| • Six merit-based scholarships from NUST | 2010 – 2014 |
| • NET scholarship for securing rank 20 out of 21,000 students | 2010 |
| • BSEK scholarship for securing rank 16 out of 118,000 students | 2008 |
| • SEECS Alumni Association Scholarship | 2013 – 2014 |
| • FURTHER Education Scholarship | 2013 – 2014 |
| • Best project award for 3D pool game | 2011 |

Skills and Interests

Python, C, JavaScript, Linux, git
Travelling – Hiking – Camping