

EDUCATION

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| Cornell University <i>Ph.D. in Computer Science (F1 Visa)</i> | Ithaca, NY 2024 – 2029 |
| National Institute of Technology Karnataka <i>Bachelor of Technology in Computer Science and Engineering</i> | Surathkal, Karnataka 2018 – 2022 |

EXPERIENCE

Microsoft Research

Research Fellow, Advisor: Dr. Venkat Padmanabhan July 2022 - July 2024
Worked on optimizing compute and network scheduling and improving resilience for Microsoft Teams

Goldman Sachs

SWE Intern, Global Markets Team May 2021 - July 2021
Worked on stress testing and optimization of REST server used in the calculation of metrics for financial institutions

Google Summer of Code with ns-3 Network Simulator ([source](#))

Intern, Advisor: Dr. Tom Henderson May 2020 - July 2020
Worked on implementation and evaluation of Low Latency Low Loss and Scalable Throughput (L4S) architecture for various queueing disciplines

SELECTED PUBLICATIONS

Saving Private WAN: Using Internet Paths to Offload Private WAN Traffic in Conferencing Services ([link to preprint](#))

CoNEXT 2024
Bhaskar Kataria, Palak LNU, Rahul Bothra, Venkat Padmanabhan et. al.

Programmable Data Plane for New IP using eXpress Data Path (XDP) in Linux ([link](#))

Invited paper at HPSR 2022 and Presented demo at ICIN 2022
Bhaskar Kataria, Rohit MP, L Monis, MP Tahiliani, K Makhijani

TinTin: Tiny In-Network Transport for High Precision INdustrial Communication ([link](#))

ICNP 2022
K Makhijani, Bhaskar Kataria, D Shashank, D Devkota, MP Tahiliani

On the importance of Traffic Control subsystem in ICN-based industrial networks ([link](#))

ANTS 2020
AH Nagaraj, Bhaskar Kataria, A Sohoni, MP Tahiliani, D Tandur, H Satheesh

PROJECTS

Design and Implementation of the New IP stack ([source](#))

Advisor: Prof. Mohit P. Tahiliani, Kiran Makhijani
Designed and implemented a novel New-IP architecture to handle time bounded traffic and asymmetric addressing schemes

Bachelor's Thesis on Implementation of NAT44 and NAT64 using TC-BPF and eXpress Data Path (XDP) ([source](#), [publication](#))

Advisor: Prof. Mohit P. Tahiliani
By using eBPF based XDP and TC-BPF, bypassed most of the Linux kernel to implement a high speed NAT.