

# VENKAT ARUN

**Contact:** `venkatar@mit.edu`

**Webpage:** `people.csail.mit.edu/venkatar`

**Programming Languages:** C/C++, Python, Rust

**Github:** `github.com/venkatarun95`

## EDUCATION

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### Massachusetts Institute of Technology

*2019-Present*

Ph.D. Student in Dept. of EECS

Advisors: Prof. Hari Balakrishnan and Prof. Mohammad Alizadeh

### Massachusetts Institute of Technology

*2017-2019*

Master of Science, Dept. of EECS (February 2019)

GPA: 4.9/5

Advisors: Prof. Hari Balakrishnan and Prof. Mohammad Alizadeh

### Indian Institute of Technology Guwahati

*2013-2017*

B.Tech. in Computer Science & Engineering

Overall GPA: **9.83/10 (Institute Rank 1, Batch of 2017)**

## PUBLICATIONS

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- **RFocus: Practical Beamforming for Small Devices**

Venkat Arun, Hari Balakrishnan

USENIX NSDI 2020

<https://arxiv.org/abs/1905.05130>

- **Finding Safety in Numbers with Secure Allegation Escrows**

Venkat Arun, Aniket Kate, Deepak Garg, Peter Druschel, Bobby Bhattacharjee

NDSS Symposium 2020

<https://arxiv.org/abs/1810.10123>

- **Copa: Practical Delay-Based Congestion Control for the Internet**

Venkat Arun, Hari Balakrishnan

USENIX NSDI 2018

<https://web.mit.edu/copa/>

- **Language-Directed Hardware Design for Network Performance Monitoring**

Srinivas Narayana, Anirudh Sivaraman, Vikram Nathan, Prateesh Goyal, Venkat Arun, Mohammad Alizadeh, Vimalkumar Jeyakumar, and Changhoon Kim

ACM SIGCOMM 2017

**Best Paper Award**

<https://web.mit.edu/marple/>

## PAST EXPERIENCE

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### Intern, Max Planck Institute for Software Systems

*Summer 2016*

*Profs. Deepak Garg, Peter Druschel, and Krishna Gummadi*

Designed a cryptographically secure allegation escrow (SAE), the first such design to our knowledge

### Intern, Massachusetts Institute of Technology

*Summer 2015*

*Prof. Hari Balakrishnan*

Developed Copa, a new general purpose congestion control algorithm for the wide-internet

## HONORS AND AWARDS

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- ACM SIGCOMM Best Paper Award, 2017
  - Jacobs Presidential Fellowship, 2017 (MIT)
  - President of India Gold Medal, 2017 (IIT Guwahati)
  - Institute Merit Scholarship, 2015 and 2016 (IIT Guwahati)
  - KVPY Government of India Scholarship, 2013