# VENKAT ARUN

## people.csail.mit.edu/venkatar venkatar@mit.edu

#### **EDUCATION**

Massachusetts Institute of Technology, Cambridge, MA, USA

2017-Present

Ph.D. Student in Computer Science

Advisors: Prof. Hari Bakalrishnan 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**

• Copa: Congestion Control Combining Objective Optimization with Simple Window Adjustments

Venkat Arun, Hari Balakrishnan USENIX NSDI 2018

• 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

#### **EXPERIENCE**

#### Intern, Max Planck Institute for Software Systems

Summer 2016

Profs. Deepak Garg, Peter Druschel, and Krishna Gummadi

· Designed a cryptographically secure allegation escrow, the first such design to our knowledge

## Intern, Massachusetts Institute of Technology

Summer 2015

Prof. Hari Balakrishnan

· Developed a new, general purpose congestion control algorithm for the wide-internet with compelling performance.

#### HONORS AND AWARDS

- 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

## OTHER PROJECTS

• Online multiplayer strategy game based on Conway's Game of Life

2014

• Assistive stereo vision system for the visually impaired

2014

• Automatic photo optimizer to find an aesthetically optimal crop	2013
• PCA-based face encoder for ultra-low bandwidth video chatting	2013
• Predictive image compression by texture completion	2012
• English-like language for literate programming	2009