# Sulyab Thottungal Valapu

- ✓ sulyabtv@gmail.com
- in sulyab
- sulyabtv
- https://sulyabtv.github.io/

## **Research Interests**

• Computer Networking • Blockchain • Mechanism Design • Internet of Things

## **Experience**

- 2021 -
- ♦ University of Southern California | Graduate Teaching Assistant
  - Teaching Assistant for Fundamentals of Computation (Spring '21), Intro to Algorithms and Theory of Computing (Fall '21), and Intro to Computer and Network Security (Spring '22)
- 2018 2020
- ♦ **Arista Networks** | Software Engineer
  - Developed Network Layer software for Arista EOS®
  - Involved in all stages of software development process including design, development, deployment, debugging and maintenance

## **Education**

- 2021 -
- ♦ Ph.D., University of Southern California Computer Science
  - Advised by Prof. Bhaskar Krishnamachari
  - Member of Autonomous Networks Research Group
  - CGPA: 3.94 / 4.0
- 2014 2018
- ♦ **B.Tech. Information Technology, IIIT Allahabad**, Graduated with Honors.
  - CGPA: 9.37 / 10

#### **Publications**

#### **Conference Proceedings**

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**S. Thottungal Valapu**, T. Sarkar, J. Coleman, *et al.*, "DARSAN: A Decentralized Review System Suitable for NFT Marketplaces," arXiv:2307.15768 [cs], arXiv, Jul. 2023. ODOI: 10.48550/arXiv.2307.15768.

#### **Technical Reports**



**S. Thottungal Valapu** and B. Krishnamachari, "A Survey of Probabilistic Micropayment Schemes," IEEE Blockchain Technical Briefs, Tech. Rep., Mar. 2022.

## **Skills**

Languages ⋄ Proficient: Python • C • C++

Used: WebAssembly • Rust • Java • MATLAB

Tools / Technologies ⋄ Tendermint • GDB • Git • Wireshark

## Miscellaneous Experience

## Internships

2017/05 - 2017/07

- ♦ Yonsei University, South Korea
  - Designed and implemented a blockchain-based protocol for intelligent autonomous vehicles to exchange messages and purchase services.
  - Analyzed the concept of blockchain branching to tackle scaling limitations

#### **Awards and Achievements**

#### **Activities**

2017

♦ Core Team member of Hack In The North, the largest student-led hackathon in India

2022, 2023

 Research Coach for the Viterbi Summer Institute program, an initiative by USC Viterbi School of Engineering to provide incoming freshmen with introductory research experience.

#### **Selected Coursework**

Systems

 Advanced Computer Networking Autonomous Cyber-Physical Systems

Applied Cryptography Network Security Operating Systems

Algorithms

Advanced Analysis of Algorithms

Natural Language Processing Artificial Intelligence