

EDUCATION

- **Indian Institute of Technology Hyderabad** Hyderabad, India
M.Tech - Computer Science and Engineering; GPA: 8.92 *January 2021 - ongoing*
- **College of Engineering Roorkee** Roorkee, India
B.Tech - Computer Science and Engineering; Percentage: 74.14% *August 2013 - July 2017*

RESEARCH EXPERIENCE

- **IIT Hyderabad** Hyderabad
Research Assistant (working with Dr. M.V. Panduranga Rao) *Jan 2021 - current*
 - **Routing algorithms for Quantum Networks:** Path finding algorithms to distribute end to end entanglements between the requesting nodes
 - **Quantum Network Simulator:** Modified an existing quantum network simulator called SeQUeNCe and added a functionality of Virtual Links to study their impact on average latency and fidelity
 - **Request scheduling in quantum networks:** Request scheduling algorithms to maximize the number of demands completed and number of entanglements served
 - **Solving VRP using adiabatic quantum computing:** Formulation of QUBO for different variants of the Vehicle Routing Problem and solving these on Dwave's quantum computer
- **Qulabs India Pvt. Ltd.** Hyderabad
Research Intern (in collaboration with IIT Hyderabad) *Jun 2021 - Aug 2021*
 - **Quantum Networks Simulator:** Extended upon the virtual link functionality and helped with the implementation of a greedy routing strategies in the simulator

PUBLICATIONS

- Anoop Pandey, Anubhav Srivastava, Shuhul Handoo, T. Bheemarjuna Reddy and MVP Rao. **Greedy Algorithms for Finding Entanglement Swap Paths in Quantum Networks.** Submitted to ICDCN'23 (under review)
- Surya Sai Teja Desu, Anubhav Srivastava and Mvprao. **Model checking for entanglement swapping.** Accepted at FORMATS'22
- Anubhav Srivastava, Devendra Mishra, Madhuri Annavazzala, Antony Franklin, Nixon Patel, M.V. Panduranga Rao. **Short-cuts on quantum network simulators.** In IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS), 2021
- B. Anvesh, ABS Phaneendra, M. Sai Anuraag, J. Sai Nishith, K. Dhanush, Anubhav Srivastava, Devendra Mishra, Antony Franklin, Nixon Patel, M. V. Panduranga Rao. **Analyzing Quantum Network Routing Protocols through Time-Driven Simulations.** In IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS), 2021

HONORS AND AWARDS

- Awarded title of Intel Software Innovator - May, 2019
- Second Runner's Up at TCS EngiNx Engineering Project Innovation Content - September, 2018
- Runner's Up at Facebook Developers Circle Hackathon - August, 2017

VOLUNTEER EXPERIENCE

- **Community Lead at Developer Student Clubs NSEC** Kolkata, India
Conducted online and offline technical & soft-skills training impacting over 3000 students. *Jan 2019 - Present*
- **Event Organizer at Google Developers Group Kolkata** Kolkata, India
Organized events, conducted workshops and delivered workshops reaching over 7000 developers. *Jan 2018 - Present*