

Varul Srivastava

B.Tech in Computer Science - International Institute of Information Technology, Hyderabad

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Formal Education/Degree

B. Tech (Hons.) and M.S. in Computer Science

International Institute of Information Technology, Hyderabad (IIIT H)

August 2019 - Ongoing

Hyderabad, India

9.57 CGPA

Work Experience

Undergraduate Research

Machine Learning Lab, IIIT Hyderabad

May 2021 - Ongoing

Working in the domain of Blockchains, Differential Privacy and Reinforcement Learning and the application of Game Theory in Mechanism Design.

Developer

Picnews-Jamspace

January 2021 - April 2021

Worked on Android application for Image-centric news display. Worked on Firebase Backend, Firestore, React-Js based Web Application.

Noteworthy Projects

Pied Piper

Algorithms Analysis and Design Project

October 2020 - November 2020

Made a command line compression platform that uses various compression algorithms and optimizations. Implemented an encryption engine via chaotic encryption using concepts of Cellular Automaton.

Crazy-Shell

Operating Systems and Networking Assignments

August 2020 - November 2020

Developed a customized shell for Linux in C. Made a 2-layered network protocol for client-server file sharing, with added multi-processing for handling multiple clients at a time. Used this architecture, to make a login based encrypted protocol for using server's device from client side.

Summer Workshop 2021

IIIT Hyderabad

June 2021 - Ongoing

Read up about potential of decentralized, block-chain based protocol for UAVs. Developed decentralized collision and deadlock free protocol for multi-agent routing using concepts from cellular Automaton.

Courses Taken

- Data Structures and Algorithms
- Algorithms Analysis and Design
- Operating Systems and Networking
- Automata Theory
- Machine Data and Learning
- Probability and Statistics
- Linear Algebra
- Discrete Structures
- Game Theory (Coursera)
- Blockchain (Coursera)

Technical Knowledge

- Languages Experience: C, C++, Javascript, Python, Bash
- Web Development: React JS, Node JS, Express
- Databases and other tools: MySQL, MongoDB, LaTeX, Git
- Domains of Interest: BlockChains, Decentralization, Cryptography, Cellular Automaton, Data Compression, Operating Systems (majorly Linux), Networking, Data Structures and Algorithms.

Achievements

- Dean's List 2019-2020

Other Experiences

Robotics Club, IIIT-H

Corporate, Events and Logistics Team

July 2020 - Present IIIT, Hyderabad, India

Online Profiles

- LinkedIn
- Github
- CodeForces
- CodeChef

Online Articles

- Elementary Cellular-Automaton
- Parallelizable Column Sort Algorithm