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, Reinforcement Learning and the application of Game Theory in Mechanism Design under the supervision of Dr. Sujit Gujar

Noteworthy Projects

Sentinel
Independent Project

📅 July 2021 - Ongoing

Developed an authentication system which is **database-leak tolerant**. Other features include api-feature to serve as B2B service, and load balancing on server side. Used Python Flask, MongoDB and ReactJS.

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 script** 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.

Picnews
Jamspace

📅 January 2021 - April 2021

Worked on Image-focused news platform as a full-stack developer. Worked on Firebase Backend, Firestore, React-Js based Web Application.

Courses Taken

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

Technical Knowledge

- Languages Experience: C, C++, Javascript, Python, Solidity, MySql, MongoDB
- Frameworks: React JS, Node JS, Express, OpenGL, Truffle
- Databases and other tools: Google Firebase, Latex, Git
- Domains of Interest: BlockChains, Cryptography, Distributed Systems, Networking, Reinforcement Learning.

Achievements

- Dean's List 2019-2020
- ACM-ICPC Regionals 2020-2021

Other Experiences

Hacking Club, IIIT-H
📅 August 2021 – Present

Robotics Club, IIIT-H
📅 July 2020 – Present

Online Profiles

- LinkedIn
- Github
- CodeForces
- CodeChef

Online Articles

- Elementary Cellular-Automaton
- Parallelizable Column Sort Algorithm