

HARSHIT GARG

CompSci Undergrad at BITS Pilani

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📍 Delhi, India

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🔗 harshitgarg22

EXPERIENCE

Practice School - 1

UST Global

📅 May 2020 – Jun 2020

📍 Trivandrum

- We explored the systems to migrate the current Public Key Infrastructure to become "Quantum Safe". Studied the liboqs project for hybrid key encryption of openSSH, and BB84 protocol. Also worked on Quantum Image Encryption.

EDUCATION

B.E. in Computer Science

BITS Pilani, Pilani Campus

📅 2018 – 2022 (*Expected*)

GPA 8.18/10 (*3 semesters*)

PROJECTS

Quantum Image Encryption

UST Global, Trivandrum

📅 May 2020 – Jun 2020

🔗 Github

- As part of my internship at UST Global, I implemented Quantum Image Encryption, which uses NEQR, Image Scrambling, and 2-D logistic sine-map. (Detailed description on github page)

Develop a sustainable network model for information communication

Prof. Amit Dua, CSIS BITS Pilani

📅 May 2020 – Present

- We plan to develop a model for machine-to-machine communications using energy harvesting techniques, and edge computing, with machine learning to optimize the energy losses.

AFORT - Attack Tree Repository

Prof. Rajesh Kumar, CSIS BITS Pilani

📅 April 2020 – May 2020

🔗 harshitgarg.in/afort

- AFORT is a repository of attack trees and attack defense trees.
- Developed a website from scratch using Flask, MySQL, Bootstrap, and JS.

SKILLS

Qiskit



Q#



C++



Python



JavaScript



Haskell



COURSES

Linear Algebra

Machine Learning

Quantum Info & Comp

Data Struc & Algo

Natural Language Processing

CO-CURRICULARS

MATRIX- Literature and Cinema Society

Vice President

- A group of film and literature enthusiasts (and geeks).
- Handle the activities of the club during internal events and co-ordinate with the Prof-in-charge

Srishtaara

Member

- Working with a team of 25 to establish India's first maker-space in a library.
- Responsible for editing videos for the club, and managing projects.