

# Soham Chatterjee

✉ [sohamc@cmi.ac.in](mailto:sohamc@cmi.ac.in) / [sohamchatterjee999@gmail.com](mailto:sohamchatterjee999@gmail.com)  
🌐 [sohamalephnull.blogspot.com](http://sohamalephnull.blogspot.com)

## Education

- **Chennai Mathematical Institute** Chennai, Tamilnadu, India  
*B. Sc - Mathematics and Computer Science* 2021 – Ongoing
- **University of Calcutta** Kolkata, West Bengal, India  
*B. Tech 1st Year - Electronics and Communication Engineering* 2020 – 2021
- **Baranagar Narendranath Vidyamandir** Kolkata, West Bengal, India  
*Higher Secondary (12<sup>th</sup> Standard)* 2018 – 2020
- **Baranagar Ramakrishna Mission Ashrama High School** Kolkata, West Bengal, India  
*Secondary (10<sup>th</sup> Standard)* 2008 – 2018

## Academic Achievements

- **CMI Entrance** Chennai Mathematical Institute  
*Entrance exam of Chennai Mathematical Institute* 2021
- **NEST** NISER  
*Entrance exam of National Institute of Science Education and Research (NISER)* 2021
- **WBJEE - Rank 1893** WBJEEB  
*West Bengal Joint Entrance Exam* 2020
- **12th Statistics Olympiad - Rank 108** AIMSCS  
*C R Rao Advanced Institute of Mathematics, Statistics and Computer Science (AIMSCS)* 2020

## Reading Projects

- **Ramanujan's work on theta functions and  $q$ -series and their connections with number theory.**  
Under Professor **Rupam Barman**, IIT Guahati during the summer break in May – Jul, 2022.
- **Algebraic Circuits: Learning the inherent structure.**  
Under Professor **Nitin Saxena**, IIT Kanpur during the winter break in Dec – Jan, 2022.

## Topics I Learned

- **Math Topics:-**
  - **Analysis:**
    - Real Analysis
    - Euclidean Space
    - Metric Space
  - **Algebra:**
    - Linear Algebra
    - Group Theory
    - Ring Theory
    - Field Theory
  - General Topology
  - Algebraic Topology (Introductory)
  - Probability Theory
  - Integral Calculus
  - Differential Equations
- **Computer Science Topics:-**
  - **Theoretical Computer Science Topics:**
    - Design and Analysis of Algorithms - **Geevarghese Philip** and **Samir Dutta**
    - Theory of Computation
    - Complexity Theory - **Partha Mukhopadhyay**
    - Arithmetic Circuits - **Nitin Saxena**
    - Computational Algebra and Number Theory - **Nitin Saxena**
  - **Other CS Topics:**
    - Discrete Mathematics - **C Ramya** & **Partha Mukhopadhyay**
    - Introduction to Functional Programming (Haskell)
    - Advanced Programming with Python - **Samir Dutta**
    - Programming Language Concepts (Java, Concurrent Programming, Lambda Calculus)

- **Other Topics:-**
  - Classical Mechanics
  - English

## Computer Skills

---

- **Programming Languages:** Python (Intermediate), Haskell (Basic), Java (Intermediate), Unix/Linux Shell Scripting
- **Technical Skills:**  $\text{\LaTeX}$  (Advanced), Git, Basic works in terminal, VIM

## Hobbies

---

- Watch Anime, Listen Music (J-pop, Western), Theming linux desktop