

Soham Chatterjee

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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 (12th Standard) 2018 – 2020
- **Baranagar Ramakrishna Mission Ashrama High School** Kolkata, West Bengal, India
Secondary (10th 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.
- **Computational Number Theory and Algebra for Algebraic Complexity Theory**
Under Professor [Nitin Saxena](#), IIT Kanpur during the winter break in Dec – Jan, 2022.
- **Factorization of Formula Arithmetic Circuits in Algebraic Complexity Theory**
Under Professor [Nitin Saxena](#), IIT Kanpur during the summer break in May – July, 2023.

Topics I Learned

- **Math Topics:-**
 - **Analysis:**
 - Real Analysis
 - Euclidean Space
 - Metric Space
 - **Complex Analysis**
 - **Algebra:**
 - Linear Algebra
 - Group Theory
 - Ring Theory
 - Field Theory
 - Galois Theory
 - Commutative Algebra
 - 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:** C (Basic), Python (Intermediate), Haskell (Basic), Java (Intermediate), Unix/Linux Shell Scripting, HTML, CSS
- **Technical Skills:** \LaTeX (Advanced), Markdown, Git, Basic works in terminal, VIM, Obsidian

Hobbies

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