

Souptik Halder

✉ haldersouptik@gmail.com

☎ (+91) 9123372668

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Kolkata, India

EDUCATION

Jadavpur University

B.E in Computer Science and Engineering

Third Year Undergraduate

CGPA: 8.6/10.00

Kolkata, India

September, 2020 - Present

RESEARCH EXPERIENCE

National University of Singapore

Reserch Intern

under guidance of Prof. Kuldeep S. Meel

Working on String Constraint Theories

Singapore

May, 2022 - Present

RESEARCH INTEREST

Algorithms

SAT/SMT

Cryptography

Machine Learning

Neural Network

TECHNICAL SKILLS

Programming Languages C, C++, Java, Python

Tools & Softwares Git, Github, Latex, MS Office

ACADEMIC PROJECTS

Automata Based Sampler on String Constraints

June 2022 - Ongoing

- Given a set of string constraints and length bound my work focuses on building a sampler which can sample strings with uniform probability.
- Automata Based approach towards counting is more efficient than dynamic programming so an efficient sampler can be designed by reduction.

AWARDS AND ACHIEVEMENTS

- Ranked in the State-wise Top 1% in Engineering Entrance Exam (WBJEE) in 2020
- First Runner-up in SOF International Mathematics Olympiad (School Level) in both 2014, 2013

EXTRA CURRICULAR ACTIVITIES

- Photography, Quiz, Debate, Public Speaking.
- Goalkeeper at school soccer team.