Nikhil Pappu

Basic Info

: nkhlpappu@gmail.com WWW: http://nikhilpappu.info

Graduated with a B.Tech and an M.Tech in Computer Science and Engineering from the International Institute of Information Technology Bangalore (IIIT-B), India. Interested in complexity theory, quantum computing, and more broadly in theoretical computer science.

Institutions

2016-2021 | **Integrated M.Tech in Computer Science and Engineering**
IIIT Bangalore, India
CGPA: 3.39/4.00

2014-2016 | **Grade XI & XII**
FIITJEE Junior College, Narayanguda, Hyderabad, India
Studied Math, Physics and Chemistry; 97.7%; JEE Main Rank: 5995

2014 | **Grade X**
Meridian School, Banjara Hills, Hyderabad, India
CGPA: 10

Experience

Spring 2021 | **Master's Thesis**
IIIT Bangalore Advisor: Ashish Choudhury
Finished my master's thesis titled *Perfectly-Secure Asynchronous Multiparty Computation for General Adversaries.*

Spring 2021 | **Teaching Assistant - Foundations of Cryptography**
IIIT Bangalore Instructors: Ashish Choudhury, Srinivas Vivek
Prepared and evaluated graded assignments and conducted tutorial sessions.

Fall 2020 | **Research in Secure Multi-Party Computation**
IIIT Bangalore Advisor: Ashish Choudhury
Studied information-theoretic secure multi-party computation tolerating a generalized non-threshold adversary in the asynchronous communication model. Submitted some of our results in a paper titled *Perfectly-Secure Asynchronous MPC for General Adversaries (Extended Abstract)*, which has been published in INDOCRYPT 2020.

Fall 2020 | **Teaching Assistant - Discrete Mathematics**
IIIT Bangalore Instructor: Ashish Choudhury
Prepared and evaluated graded assignments and conducted tutorial sessions.

Summer 2018 | **Open Source Developer - Google Summer of Code 2018**
SymPy: a Python library for symbolic mathematics. Mentors: Jason Moore, Ondřej Čertík
Implemented a parser that translates Autolev (a proprietary symbolic dynamics language, now superseded by MotionGenesis) code to SymPy code using the ANTLR parser generator. More details here, and here.

Publications

2020 | **Perfectly-Secure Asynchronous MPC for General Adversaries (Extended Abstract)**
Ashish Choudhury, Nikhil Pappu
INDOCRYPT 2020

Programming Skills

Skills | Python, C, C++, Java, HTML5, Javascript, Git, Jenkins, Docker, MySQL, Android, LaTeX/XeLaTeX, bash/shell, SciPy, scikit-learn