

Zerui Cheng

PERSONAL DETAILS

Date of Birth: July 12, 2001

Place of Birth: Wuhu, Anhui, China

Institution: Tsinghua University

Department: Institute for Interdisciplinary Information Sciences (IIIS)

Class: Yao Class (an undergraduate honor program founded by Andrew Chi-Chih Yao)

E-mail: marco.cheng712@gmail.com

Phone Number: +86-17855329418

CURRENT STUDY

Current Study Level: Year 3 Undergraduate

Major: Computer Science

Current Cumulative Grade Point Average: 3.89/4.0

CURRENT RESEARCH INTERESTS

Main Interests: Blockchain, Cryptocurrencies

Others: Algorithms, Game Theory, Privacy and Security etc.

PROJECTS

Game Theoretical Analysis of Selfish Mining in Blockchain Oct 2020 -May 2021
Students' Research Training Project, advised by Prof. Zhixuan Fang

A Survey on Blockchain System and Related Cryptographic Methods Apr 2021 - June 2021
Project of course <Fundamentals of Cryptography>, instructed by Prof. Yilei Chen

An Algorithm for Graph Matching with Restrictions on Edge Weights, Based on Number Theory, Linear Algebra and Randomization May 2021 - June 2021
Project of course <Numerical Analysis>, instructed by Prof. Wenjian Yu

Crowdsourcing Work as Mining: A Decentralized Computing Paradigm June 2021 - Feb 2022
Students' Research Training Project, advised by Prof. Zhixuan Fang, paper in submission

RESEARCH INTERNSHIP

Undergraduate Research Intern in Shanghai Qizhi Institute
Themed "PoUW on Public Chain", Advised by Prof. Zhixuan Fang Jul 2021 - Aug 2021

Research Intern in Duke University and the University of California, Berkeley
Advised by Prof. Fan Zhang and Prof. Dawn Song From Feb 2022

HONORS / AWARDS

Competitive Programming Contests

Silver Medal in National Olympiad in Informatics	Jul 2018
Second Place in "Leetcode Cup" National Programming Contest	Oct 2019
Gold Award in CCPC (Changchun Site, 8 th place)	Nov 2020
Silver Award in ICPC (East Continental Final)	Apr 2021
Gold Award in ICPC (Yinchuan Site, 5 th place)	May 2021
Gold Award in CCPC (Harbin Site, 7 th place)	Nov 2021

Mathematics Competitions

First Prize in 12 th National Maths Competition	Dec 2020
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Scholarships

Scholarship for Excellence in Voluntary Work and Social Activities	Oct 2020
Scholarship for Excellence in Academic Achievements	Oct 2021
Scholarship for Excellence in Scientific and Technological Innovation	Oct 2021
Scholarship for Exemption of Tuition Fee (Xuetang Program)	Annual, From 2019

SOCIAL WORK

Vice President, IIIS Students' Union	From Oct 2021
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Deputy Secretary, IIIS Youth League Committee	Oct 2021 - Feb 2022
League Branch Secretary of Yao Class 92	From Sep 2021
Member, Contest Stuff Department of THU Algorithm Association	From Jul 2020
Member, Organization Department of IIIS Students' Union	Aug 2020 - Sep 2021

REMARKABLE ACTIVITIES

Volunteer of the 110 th anniversary of Tsinghua University	Apr 2021
Problem Setter of NOI 2021 (National Olympiad in Informatics)	Jul 2021

SKILLS

Programming Skills: C/C++ (proficient), Python, Golang

Language Skills: Chinese (native) , English

(Last Updated: Feb 24,2022)