XINYU MAO

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EDUCATION

Shanghai Jiao Tong University Aug. 2018 - Present Undergraduate, major in Computer Science A member of ACM Honor Class, Zhiyuan College GPA: 3.93 / 4.3 | Ranking: 6 / 33 Shanghai, China RESEARCH EXPERIENCE University of Southern California July 2021 - Present Research Intern advised by Prof. Jiapeng Zhang Research Topic: computational foundations of cryptography Shanghai Jiao Tong University Sept. 2020 – June 2021 Undergraduate Researcher advised By Prof. Shengli Liu Reseach Topic: public-key cryptography **PROJECTS** Compiler for Mx* Language | Github repo Spring 2020 Written in C++ from scratch. It translates a Java-like language to assembly language programs on the RISC-V architecture. Fall 2019 DHT | GitHub repo An Implementation of Distributed Hash Table with basic functions, written in go-lang. RISC-V CPU | GitHub repo Fall 2019 A simplified 5-stage-pipeline user RISC-V CPU written in Verilog. Honors and Awards Foresight-Sequoia Scholarship 2021 70 winners in SJTU each year Huawei Scholarship 2020 14 winners at Zhiyuan College each year Zhiyuan Honorary Scholarship 2018, 2019, 2020 Top 5% in SJTU each year **Bronze Medal** 2017 The 34th China National Olympiad in Informatics (NOI) TEACHING EXPERIENCE **Great Ideas in Computer Science** Fall 2019, Fall 2020, Fall 2021 Teaching Assistant I led a TA team, and I was deeply involved in the course design. I gave lectures on various topics. I wrote an Enigma Simulator to facilitate teaching. Shanghai Jiao Tong University

SKILLS

Programming: C++, Java, Python, JavaScript, Latex

Courses with A+ grade: Linear Algebra, Mathematical Logic, Probability Theory, Computational Complexity, Quantum Computing, Algorithm Analysis, Advanced Algorithm, Combinatorics, Graph and Network