## Shixin Song

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## EDUCATION

University of Michigan  Bachelor of Science in Computer Science	Ann Arbor, U.S. 2020 - Present
Shanghai Jiao Tong University Bachelor of Science in Electrical and Computer Engineering	Shanghai, China 2018 – 2020
RESEARCH	
<ul> <li>Thermometer   CPU, Optimization</li> <li>Motivation: Fetch Directed Instruction Prefetching (FDIP) is widely used in more reduce frontend stalls, but it is bottlenecked by branch target buffer (BTB) misses</li> <li>Work: Characterized limitations of prior works on reducing BTB misses. Propose</li> </ul>	d a novel profile-guided BTB
replacement policy (Thermometer) to reach near-ideal performance. The prelimina	
<ul> <li>Proxyweb   Hardware optimization</li> <li>Motivation: Hardware design evolves relatively slower than web applications. The future behavior of widely used web applications for hardware optimization.</li> <li>Work: Characterize several widely used applications in different area and identify different versions.</li> </ul>	-
Awards and Honors	
Roger King Scholarship University of Michigan	2021 Ann Arbor, U.S.
Dean's List University of Michigan	2020, 2021 Ann Arbor, U.S.
SJTU Undergraduate Excellent Scholarship Shanghai Jiao Tong University	2019, 2020 Shanghai, China
Fuda Scholarship Shanghai Jiao Tong University	2019 Shanghai, China
Experience	
Undergraduate Research Assistant University of Michigan  • Advisor: Prof. Baris Kaskci  • Research projects: Thermometer and Proxyweb	2021 Ann Arbor, U.S.
Grader University of Michigan • Introduction to Computer Organization (EECS370)	2021 Ann Arbor, U.S.
Teaching Assistant Shanghai Jiao Tong University  • Introduction to Computers and Programming (VG101)  • Introduction to Engineering (VG100)  • Honors Mathematics II (VV186)	2019 — 2021 Shanghai, China
Student Advisor Shanghai Jiao Tong University Volunteer Teaching Sanhe Junior School  • Math classes for grade 7 students	2019 Shanghai, China 2018 – 2019 Yunnan, China