YUEWEN HOU

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EDUCATION

Bachelor of Computer Science, University of Michigan, Ann Arbor   Expected 2023
GPA:4.00/4.00

Relevant Coursework: Data Structures and Algorithms,Intro to Computer Organization,Intro to OS,Web System, Foundations of Computer Science,Programming Paradigms.

Minor in Mathematics Relevant Coursework: Abstract Algebra, Diff Equation, Linear Algebra

Bachelor of Electrical Computer Engineering, Shanghai Jiao Tong University   Expected 2023

SKILLS

Technical Skills	Modern C++, Verilog ,MATLAB ,Elm ,LaTeX,Python, Mathemetica,Scheme,Prolog
Coursera training	Machine Learning Specialization

EXPERIENCE

Research Assistant   Jan 2023 - Now
University of Michigan   *Ann Arbor, MI*
Advisor: Baris Kasikci

- Testing various btb replacement policies with fdip using champsim on google data center's traces.

Research Assistant   Apr 2023 - Now
University of Michigan, Nuclear Engineering & Radiological Sciences   *Ann Arbor, MI*
Advisor: Brendan Kochunas

- Numerical methods and parallel algorithms for high-fidelity computational reactor physics. traces.

Teaching Assistant For Quantum Information Science   May 2023 - August 2023
UM-SJTU Joint Institute   *Shanghai, China*
Instructor: L Jay Guo

Teaching Assistant For Introduction to Engineering   May 2022 - August 2022
UM-SJTU Joint Institute   *Shanghai, China*
Instructor: Manuel Charlemagne

- Instructed basic algorithm and functional programming during labs
- Assisted in answering students' questions, enabling the instructor to complete the teaching plan on time.
- Created assignments for students based on project material, helping them to learn game development and software engineering.

PROJECTS

Thread Library. Implement user-thread library with basic mutex and conditional variable.

Trades or Traps: a Strategy Decision Model with Return and Risk Tradeoff on Volatile Assets Trading.
Simulate the investment in gold and Bitcoin from the year 2016 to 2021 to find the best daily trading strategy based on previous price by constructing reliable mathematical mode. (View here!)