

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, Foundation 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, L ^A T _E X, Python, Mathematica, Scheme, Prolog
Coursera training	Machine Learning Specialization

EXPERIENCE

Research Assistant University of Michigan Advisor: Baris Kasikci	Jan 2023 - Now <i>Ann Arbor, MI</i>
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- Testing various btb replacement policies with fdip using champsim on google data center's traces.

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

Memoria. Develop a puzzle game using pure functional language Elm, collaborating with team member by using git in an professional way ([Play it here!](#) [team 4](#)), ([source code](#))

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!](#))

EXTRA-CURRICULAR ACTIVITIES

University mechnacial Engineering Contest	March 2021 - May 2022
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- Write arduino program to control the robot overcome barriers and move in a smooth way.
- Design flexible robot with good portability and various functions using solidworks and win the best creative award.