

## Ryan L. Hou

Beijing, China

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### Education

University of Michigan – Ann Arbor | Ann Arbor, MI Expected: May 2024

*Bachelor of Science in Engineering in Computer Science*

Cumulative GPA: 4.00/4.00

Relevant Coursework: Programming & Intro Data Structures, Intro to Statistics & Data Analysis, Intro to Engineering

International School of Beijing | Beijing, China

May 2020

*High School Diploma and International Baccalaureate Diploma*

Relevant Coursework: IB HL Math, IB HL Physics, IB HL Film

### Skills

Coding: C/C++, Python, MATLAB, R, Git

OS: Mac OS, Windows, Linux

Software: Microsoft Office, Photoshop, Lightroom, Premiere Pro, After Effects, Logic Pro X

Languages: English, Chinese, Spanish (Intermediate)

### Personal Projects

Baseball Pitch Tracker | Python, OpenCV

- Detects and records baseball movement in a video by segmenting motion and color

Tic Tac Toe with AI | C++, SFML

- Tic Tac Toe game with GUI that allows users to play against computer AIs with multiple difficulties, including a hard difficulty that utilizes the minimax algorithm

### Awards

William J. Branstrom Freshman Prize, University of Michigan Fall 2020

- Awarded to freshmen who rank in the top 5% of their class

Dean's Honor List, University of Michigan – College of Engineering Fall 2020

- Awarded to engineering students with high scholastic standing

University Honors, University of Michigan Fall, Winter 2020

- Awarded to students who earned a 3.5 GPA or higher during a term

Coach's Award, International School of Beijing Fall 2019

4 Year Varsity Award, International School of Beijing Fall 2019

### Work Experience

Assistant Baseball Coach | International School of Beijing March 2021 – Present

- Instructed high school baseball players at the varsity level
- Assisted head coach in creating practice plans and leading drills

### Extracurricular Activities

High School Varsity Baseball - *Team Captain*

August 2016 – October 2019 | Beijing, China

- Lead the varsity team and organized practices, workouts, team events and collaborated with various school clubs to create promotional content for tournaments

Filmism Studios – *Cinematographer and Editor*

Fall 2018 – Spring 2020 | Beijing, China

- Filmed and edited various promotional videos for school events and sport tournaments

ISB Net Impact – *Compost Project Leader*

Fall 2018 – Spring 2020 | Beijing, China

- Initiated and lead the compost project that turns various food wastes generated by the high school cafeteria into compost

TESOL – *English Tutor Volunteer*

Fall 2018 – Spring 2020 | Beijing, China

- Tutored English to local Chinese children in the Beijing area
- Created weekly lesson plans collaboratively

Nightingale Charity Club – *Volunteer*

Fall 2018 – Spring 2020 | Beijing, China

- Organized and participated in fundraisers to support local orphanages in Beijing
- Went on weekly trips to local orphanages