

# Thomas Huang

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## Objective

College sophomore looking for a summer internship in Computer Science.

## Education

09/2015 – Current: Sophomore (Junior standing, graduating April 2019), Undergraduate Computer Science Engineer, Department of Computer Science, College of Engineering, University of Michigan, Ann Arbor, MI; Current GPA: 3.95/4.0

## Skills and Personal Traits

- Strong programming skills in PHP, HTML/CSS, Java/C/C++, Javascript, Python, and Database design/MySQL
- Excellent problem-solving, teamwork, and communication skills
- Self-motivated and diligent
- Bilingual in English and Chinese, elementary proficiency in Japanese

## Work History

02/2016 – Current: Web Team member, The Michigan Daily, University of Michigan, Ann Arbor. Working on implementing the back-end of a mobile app that will be released to the student body. Using REST API, Symfony, and Doctrine.

05/2016 – 08/2016: Research Assistant, Biomimetic Intelligent Mechatronics Laboratory, Ritsumeikan University. Worked on programming a framework for communication between Mathematica and other platforms for robots. Learned technical communication skills, such as technical writing and oral presentation skills.

09/2015 – 04/2016: Research Assistant, Department of Mechanical Engineering, University of Michigan, Ann Arbor. Worked on a project that used sound sensors to detect leakage signals in pipes. Programmed in LabView to collect experimental data and analyzed data using mathematical tools in MATLAB.

06/2014 – 08/2014: Intern, UM-SJTU Joint Institute, Shanghai Jiao Tong University, Shanghai, China; Developed a cutting-edge survey system using HTML/CSS, PHP, Javascript, MySQL, and WeChat's API. Programmed the back-end of the website, such as transfer of data between pages and communication between website and database.

## Relevant Coursework

- UM: Programming and Introductory Data Structures, Discrete Mathematics, Data Structures and Algorithms, Introduction to Computer Organization, Linear Algebra
- Coursera (Rice, U. London, Princeton, and Stanford): Principles of Computing, Algorithmic Thinking, Creative Programming for Digital Media & Mobile Apps, Algorithms, Part I, Machine Learning
- EdX (MIT, Columbia, Microsoft): Intro. to Computer Science and Programming Using Python, Data Science and Machine Learning Essentials, Machine Learning for Data Science and Analytics

## Activities and Clubs

- **YHack**, Yale University, November 6-8<sup>th</sup>, 2015; **MHacks**, University of Michigan, February 19-21<sup>st</sup>, 2016
- **Artificial Intelligence Team Lead, UM::Autonomy**, University of Michigan, 09/2015 – Current
  - Build a fully autonomous robot boat every year to compete at the RoboBoat competition. Lead of the Artificial Intelligence Team, which is in charge of software and algorithms used by the boat.