

# Andrew Huang

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## EDUCATION

**University of Michigan, Ann Arbor. College of Engineering**

**September 2019- May 2023**

**Certificates:** Fundamentals of Deep Learning, Nvidia.

**Major:** Computer Science Engineering **GPA:** 3.5

Software Engineering Virtual Experience, JP Morgan.

**Relevant Coursework:** Data Structures and Algorithms, Introduction to Computer Organization, Foundations of Computer Science, Computer Science Pragmatics, Discrete Mathematics.

## SKILLS

Coding: C++, Python, HTML5, CSS3, Javascript ES6, Node.js, Matlab.

Technologies/Environment: Heroku, Bootstrap, SASS, Windows, macOS, Linux, Microsoft Office Suite, Adobe Photoshop.

Languages: Native in English and Mandarin Chinese, Proficient in Spanish.

Communication: Mentorship, Adept-writer, Team-oriented.

## EXPERIENCE

**Dragon Bowl Ramen/Front-End Developer**

**April 2020 - Present**

- Designed and implemented prototypes for the main restaurant website using HTML5, CSS3, and Javascript.
- Continue to update the website due to COVID-19 to reflect restaurant status.
- Implemented basic functionalities to allow customers to contact the restaurant.

**Research Assistant, Dr. Wei Lu, G.G. Brown Laboratory, University of Michigan**

**October 2019 - April 2020**

- Investigated methods to reduce the training data constraints on A.I. pertaining to street objects and vehicles.
- Helped maintain a codebase on nano-particle self-assembly simulation.
- Wrote python script to aid in the use of deep learning at the laboratory.
- Generated training data on street objects and vehicles for artificial intelligence.
- Helped adapt a deep learning algorithm for the laboratory's specific research purposes.

## PROJECTS

**Personal Website/Creator**

**November 2020 - Present**

- Designed and implemented website theme switch (midnight mode and sunset mode)
- Improved Lighthouse performance score by 16 points through Javascript and CSS minification, and by serving images in next-Gen format (WebP)
- Implemented complex onscroll and other animations using Greensock Gsap and CSS
- Created an interesting statistics modal with Javascript, and a working contact form

## ACTIVITIES AND LEADERSHIP

**INvent/ Member**

**October 2019 - April 2020**

- Helped create python lessons for CS education in Michigan High Schools.
- Founding member of the local Michigan branch of INvent, dedicated to local CS education.
- Contributed to the process of making executive program decisions.

**FHHS Engineering Club/ Founder and President**

**September 2018 - July 2019**

- Created club presentations and taught lessons to improve STEM education in our high school.
- Managed and scheduled competitions and events as a way to strengthen the club.
- Set precedents for future engineering club executive boards and members.