

# Eric Sihao Lin

Web Designer & Software Developer

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## Education

**New York University, College of Arts and Sciences**, Manhattan, New York

May 2019

*Bachelor of Arts in Computer Science*

**Minors:** Mathematics, Mandarin Chinese, Web Programming and Applications

**Honors:** NYU College of Arts and Science Scholarship (Fall '15 - Spring '19)

## Skills

**Programming Languages:** Java, C/C++, Clojure, Swift, Go

**Scripting Languages:** Javascript, HTML/CSS, PHP, Pawn

**Operating Systems:** Windows, Mac OS X, Linux: Debian, CentOS, Ubuntu

**Database Development:** MySQL, PostgreSQL, MongoDB

**Other Software:** MatLab, Git, Photoshop/Illustrator/InDesign, Dreamweaver, SolidWorks

## Projects

**Laser Range Finding - NYU Tandon School of Engineering**, Brooklyn, New York

January 2017 - Present

*5G Millimeter Wave Researcher*

Project Source: <https://github.com/NYU-Efficient-Room-Traversal>

- Develop a solution to efficient room traversal using single camera in any given room
- Adapt machine vision mechanism to aid robotic room traversal using encoders and step-drivers
- Create a “set and forget” workflow for robotic room traversal, maximize room coverage
- Update existing libraries from Python to Go platform for better parallel thread processing

**Newton South High School Guide - App Design Team**, Newton, Massachusetts

February 2015 - June 2015

*App Design Team Co-Founder*

Project Source: <https://github.com/NSHS-App-Design-Team>

- Streamlined faculty absence input and tracking compared to conventional distribution via email listserv
- Alerted students of their upcoming schedule and any instructor absences they are affected by
- Created multiple platform alert for affected students via email, push notification, and/or text messages
- Managed school-wide announcements to intended recipients instantly

## Experience

**New York University Information Technology**, Manhattan, New York

September 2016 - Present

*Student Technology Assistant*

- Introduce and demonstrate lab technology in support of student exploration and collaboration
- Promote relevant coursework for interested students, run technical workshops open to entire university
- Provide on-demand support for all remote and satellite student technology centers throughout campus
- Oversee computer lab hardware and technical equipment such as HP and Ricoh printers/scanners
- Analyze client files for printability on Stratasy's Mojo 3D printer

**New York University America Reads and Counts**, Manhattan, New York

January 2016 - June 2016

*America Counts Mathematics Tutor*

- Collaborated with classroom teachers and after school program coordinators to assess students' needs
- Formulated a specialized lesson plan for each student to target weaknesses and strengthen understanding
- Initiated 1-on-1 or small group discussions on challenging topics to promote self-discovery

**Tufts University Teachers and High School Students Program**, Boston, Massachusetts

June 2015 - August 2015

*High School Research Assistant*

- Completed an independent research project under the close supervision of a medical center sponsor
- Collaborated closely with other high school interns to deepen scientific inquiry
- Presented clinical findings to project mentors and the school administrator to promote future research