

# Andrew Wang

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## EDUCATION

### SUNY Stony Brook University

Bachelor of Arts – Major in Technological Systems Management

Aug. 2019 – May. 2023

## COURSES

- Data Structures
- Discrete Mathematics
- Human Computer Interaction
- Object Oriented Programming
- Applied Calculus II
- Applied Linear Algebra
- Fundamentals of Info Technology
- Appl. Software for Info Management
- Industrial Engineering
- Engineering Ethics
- Technology Assessment
- Interdisciplinary Research Methods

## EXPERIENCE

### Intern

Aug. 2022 – Oct. 2022

BroadStreet Institute

Remont

- Working on BroadStreet Institute's COVID-19 Data Project for Emergency Data Relief; contributing to data entry and analysis, quality assurance

### Tutor

Jan. 2022 – Jun. 2022

KEONI

Fremont, CA

- Remotely tutoring students in grades 9-12 in various subjects, such as English Reading/Writing and Math.

### Intern

Jul. 2018 – Aug. 2018

Element Structural Engineers

Newark, CA

- Worked with structural engineers on development projects, edited sheet details diagrams of part units, assisted in site progress reviews on visits by shadowing employees.

## PROJECTS

### Portfolio Site

July 2022

Website

Stony Brook, NY

- Portfolio site created using HTML, CSS, and Javascript to showcase projects, artworks, and papers (andwan55.github.io)

### ResDec App Concept

May 2022

ML and Figma Project

Stony Brook, NY

- Designed an app concept in Figma which would allow users to check chest x-rays to see if they have COVID19/pneumonia/tuberculosis (see project Github for Figma page)
- Created a machine learning model in Google Colab trained on chest scans of people with the above conditions that would be used by the app (project Github)

### Gesture Recognition Arduino

Spring 2022

Robotics Machine Learning Project

Stony Brook, NY

- Worked on a gesture recognition device to pinpoint user motions through a machine learning model

### Musical Santa Toy

Dec. 2020

Arduino Project

Fremont, CA

- Helped design and build a toy Santa drummer and coded an Arduino Uno
- Used the Minim libraries within the Processing IDE to read the MP3 file's data and matched its movements and lights to the beat of the song (Youtube video demo)

## ACTIVITIES

### SBU Vertically Integrated Project: Intro. Multidisciplinary Project | Team member

Jan. 2022 – May 2022

- Working on robotics projects that integrate computer science topics like machine learning.

### Stony Brook Young Investigators Review | Associate Editor

Jan. 2022 – Present

- Working with managing editors, copy editors, and review editors on pieces for scientific topic journal.
- Team Website: <https://sbyireview.com/>
- Personal Portfolio: <https://andwan55.github.io/papers.html>

### FTC Robotics | Hardware & Graphics Designer

Sep. 2016 – Jun. 2019

- Resident computer-aided design (CAD) specialist on team, managed graphics pertaining to team attire and website upkeep, along with hardware functionality and design.
- Participated in qualifier competitions as both maintenance member and driver for the robot.

## TECHNICAL SKILLS

**Skills:** Java, Python, C++, JavaScript, Figma, HTML, CSS, JSON, Arduino, Excel VBA, Adobe Photoshop, Adobe Illustrator, Autodesk Inventor & Revit