

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

Tutor

KEONI

Jan. 2022 – Present

Fremont, CA

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

Intern

Element Structural Engineers

Jul. 2018 – Aug. 2018

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.

Teacher's Assistant

SOHO Art Academy

Oct. 2016 – Mar. 2017

Fremont, CA

- Helped to manage supplies, coached youths, assisted in classroom activities and supervision.

PROJECTS

Portfolio Site

Website

July 2022

Stony Brook, NY

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

ResDec App Concept

ML and Figma Project

May 2022

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 COVID19/pneumonia/tuberculosis/none that would be used by the app (project Github)

Gesture Recognition Arduino

Robotics Machine Learning Project

Spring 2022

Stony Brook, NY

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

Musical Santa Toy

Arduino Project

Dec. 2020

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.
- Website: <https://sbyireview.com/>
- Personal Portfolio: <https://andwan55.wordpress.com/>

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/C++, JavaScript, Figma, HTML, CSS, JSON, Arduino, Excel VBA, Adobe Photoshop, Adobe Illustrator, Autodesk Inventor & Revit