



# Jaye Sosa

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## LANGUAGES

English  
(native language)

Mandarin Chinese  
(bilingual proficiency)

## SKILLS

MatLab



C



Java



Pro Tools



Electronics



## Relative Experience

**Audio Recording Producer**, Aaptiv, New York, NY

June 2018 - Present

- Recording audio based fitness classes with top profile NYC personal trainers
- Producing classes alongside personal trainers to best fit target user markets
- Mixing, editing, and performing vocal repairing techniques within Pro Tools

**Undergraduate Research Intern (REU)**, SONYC, New York, NY

June 2018 - August 2018

- Working on the SONYC (Sounds of New York City) project through NYU Center of Urban Science and Progress within the "Sensor Team" as an REU Undergrad Researcher
- Maintaining and repairing failing sensors within a network of 53 sensors throughout NYC
- Building and designing new sensor designs
- Testing sensors using Linux terminal command line and Raspberry Pi technology.

**T.E.A.M Lab Intern**, Harvestworks Digital Arts Media Center, New York, NY

Summer 2017

- Assisting in installing and troubleshooting electronic music installations for artists participating in the Harvestworks residency program.
- Helping set up and manage all electronic installations showcased at the New York Electronic Music festival on Governor's Island.

## Education

New York University, New York, NY

**Candidate for B.M. in Music Technology**

Expected Spring 2019

**Candidate for M.M in Music Technology**

Expected Spring 2020

**Computer Science Minor**

- Co-President of the NYU Steinhardt Music Technology Student Ambassador's organization.
- Social Media Manager of all NYU Music Technology Official social media sites.

## Relevant Projects

**"Kinect 4"**

**Red Bull "Hack the Hits" Finalist, San Francisco, CA**

Selected as 1 of 15 finalists to participate in the Red Bull Hack the Hits 48 hour hackathon. Jaye's group created the "Kinect 4" which is a human sequencer that uses location tracking with a Kinect 360 that tracks the tops of 4 people's heads. Based on the change in location of the users, the user's position will trigger various sounds and notes to create a continuous musical loop.

**"Polyphonic Voice Synthesizer"**

**Analog Electronics, NYU, NY**

The Polyphonic Voice Synthesizer is a project built entirely from analog electronics parts. The synthesizer plays three sets of chords with a changable gain amplification and photoresistor controlled tremolo.

**"Dancing Spectrum Analyzer"**

**Digital Electronics, NYU, NY**

Created a visual LED and animated light show that reacted in real time to any input audio. Frequency content was extracted using FFT functions and programmed to output certain colors and animations based on frequency bins and magnitude. Code was created within Arduino and animations in Processing.

**"Vowel Tract Simulator"**

**Digital Signal Processing, NYU, NY**

Created a series of bandpass filters within MatLab that convolves with various tones to recreate vowel sounds from prominent formants within spectrograms of English vowels.

**"A.I Piano Accompanist"**

**Sound Spatialization and Synthesis, IRCAM, Paris, France**

Created an "Artificial Intelligence Piano Accompanist" on Max MSP as a final project where the user would supply a musical key and melody and the Piano Accompanist would improvise and play along with what the user is playing in real time.

**"Find My Dose"**

**SheHacks Boston, Boston, MA**

Find My Dose is a web application that helps surgical patients understand how their pain management plan compares to other patients who've had the same procedure without lifting the veil of anonymity. Backend and servers created with Flask, front end with HTML/CSS, and data scrapping with BeautifulSoup.

Course Work in: C, C++,  
Java, Python, MatLab,  
HTML