# Sung Mo Yang

sungmoyang@outlook.com ❖ (347) 653-9877 ❖ https://sungmoy.github.io ❖ New York City

## EDUCATION

**Stony Brook University**　　　　　　　　　　　　　　　　　　　　　**May 2023**
*Bachelor of Science, Computer Science*　　　　　　　　　　　　　　*Stony Brook, New York*
- Graduated cum laude, 3.62 GPA
- Certificate of Recognition, NY State Senator Toby Ann Stavisky
- Certificate of Scholarship, ANC Scholarship Foundation
- Certificate of Scholarship, Sul Chang Andrew Park Scholarship Foundation

**The Bronx High School of Science**　　　　　　　　　　　　　　　**June 2019**

## PROJECTS

### Lawnmower
- Full stack (MERN) web application for real-time collaborative editing and sharing of 2D tilesets and tilemaps
- Supports account authentication, live collaboration, and online community services
- Semester long group project emulating the professional software development experience
- Focus on use case requirements user interfaces, teamwork, deployment, and version control
- Technology Stack:
  - MongoDB, Express, React, NodeJS, JavaScript, Mongoose, Axios, bcrypt, Tailwind UI, AWS
  - Redux State Management, RESTful API

### What Makes People Happy: Data Analysis
- Data analysis of World Happiness Reports for 2015 – 2019
- Performed comprehensive data preprocessing including data cleaning and normalization
- Conducted and visualized thorough exploratory data analysis to uncover insights and patterns
- Implemented and supervised machine learning models (linear regression, random forest regression, gradient boosting). Performance was measured using Root Mean Square Error.
- Technology Stack:
  - Python, Jupyter Notebook, Anaconda, pip, numpy, matplotlib, pandas, seaborn, scikit-learn

### Mutant Maize
- 2D side-scrolling platformer built for web browsers using the Wolfie2D game engine
- Management of system resources, real-time physics, animation systems, audio systems, and artificial intelligence
- Technology Stack:
  - Typescript, Tiled, Piskel, Audacity, WebGL
  - Object Oriented Programming, Multithreading, Factory Design Pattern, Singleton Design Pattern

## WORK EXPERIENCE

**New York Academy**　　　　　　　　　　　　　　　　**July 2021 – August 2021**
*Teacher's Aide, Office Assistant*　　　　　　　　　　　　　　　　*Queens, New York*
- Daily one-on-one tutoring sessions for middle school mathematics
- Additionally assisted teachers and reinforced instructions taught in the classroom to students
- Duties: reviewing lessons, proctoring tests, grading assignments, answering questions, assistance with homework

## SKILLS

**Technical Skills:** Full Stack Web Dev (MERN), General Web Dev (HTML, CSS, JavaScript), Data Science (Python), Machine Learning/Generative AI, Object Oriented Programming (Java), SDLC, Web Scraping, C Programming, Assembly Programming

**Professional Skills:** Microsoft Suite, Time Management, Communication, Organization, Teamwork, Adaptability