

Kenny Sun

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EDUCATION

Clemson University

Clemson, SC

Bachelor of Science in Computer Science, Honors College, 4.0 GPA

Aug. 2023 - May 2027

- Relevant CW: Programming Methodology, Linear Algebra, Algorithms and Data Structures, Discrete Structures for Computing, Introductory Business Statistics

EXPERIENCE

Summer Undergraduate Researcher

May. 2024 - Present

College of Staten Island

Staten Island, NY

- **Technologies:** Python, MPI, Pandas, Matplotlib, Anaconda, Jupyter, Spyder, AWS Cluster
- Assisted in the development of a flood model to predict flooding in the New York area
- Used machine learning techniques to validate flood sensor data
- Analyzed the computation complexity of machine learning models with parallel processing
- Created graphs using Pandas and Matplotlib libraries in Python to effectively present data insights

Undergraduate Computer Science Teaching Assistant

Jan. 2024 - Apr. 2024

Clemson University School of Computing

Clemson, SC

- **Technologies:** C++, C, Emacs, Vim, VS Code
- Co-led lab sections for CPSC 1020 by teaching lessons and answering student questions
- Hosted office hours to help students understand class material (C++)
- Collaborated with other TAs and the professor to ensure the success of all students
- Graded lab assignments and programming projects

VEX Robotics - Volunteer

Aug. 2021 - Present

Robotics Education and Competition Foundation

Greenville, SC

- Assisted in tournament set up and help run robotics tournaments across the state to promote STEM education
- Volunteered as a referee for robotics matches
- Provided assistance with technical troubleshooting during events

PROJECTS

[Machine Learning Flappy Bird](#) | *Python, Pygame, Machine Learning*

- Python program that trains a machine learning model to play Flappy Bird
- Uses neural networks and neurons to determine when the model should jump
- Incorporates important fundamentals of linear algebra with weights for input values and neurons

[Poker Hand Evaluator](#) | *C++, Pointers, Basic Combinatorics, OOP, Makefiles*

- Terminal program that evaluates the strength of players' hands in Texas Hold Em' Poker
- User is prompted for players' cards and community cards before printing the evaluation of each player's hands
- Uses dynamically allocated memory dependent on the number of players playing and the stage of betting

[Personal Website](#) | *HTML, CSS*

- Created a simple website using HTML and CSS to display projects

TECHNICAL SKILLS

Languages: C/C++, Java, Python

Developer Tools: GitHub, VS Code, Emacs, Vim, Matplotlib, Pandas, Numpy, MPI, Anaconda, Jupyter Notebooks, Spyder IDE, AWS Cluster

AWARDS

2023 CU Hack It Freshman Hello World Competition: Best Hardware Hack

- Worked with a team of 4 to design and model a programmable car using Fusion 360 and C++
- Utilized 3D printing, an Arduino UNO, various motor controllers, and motors to give the car functionality

South Carolina Palmetto Fellows Scholarship Recipient

2021 - 2022 VEX Robotics South Carolina State Championship: Tournament Champions