

Kenny Sun

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github.com/mystica-l | [Personal Website : mystica-l.github.io](https://mystica-l.github.io)

EDUCATION

Clemson University

Clemson, SC

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

Aug. 2023 - May 2027

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

EXPERIENCE

Summer Undergraduate Researcher

May. 2024 - Present

College of Staten Island

Staten Island, NY

- **Technologies:** Python, MPI, Pandas, Matplotlib, Anaconda, Jupyter, Spyder, AWS Cluster
- Assisting in the development of a flood model to predict flooding in the New York area
- Using machine learning techniques to validate flood sensor data
- Analyzing the computation complexity of machine learning models with parallel processing
- Creating 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

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

Bulgogi Korean Grill - Server

June 2022 - October 2022

Bulgogi Korean Grill

Greenville, SC

PROJECTS

Machine Learning Flappy Bird | *Python, Pygame, Machine Learning, OOP*

Mar. 2024 - Mar. 2024

- 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*

Oct. 2023 - Dec. 2023

- 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*

Nov. 2023 - Present

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

TECHNICAL SKILLS

Languages: C/C++, Java, Python, Exposure to HTML and CSS, Exposure to C#

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

South Carolina Palmetto Fellows Scholarship Recipient

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