Kenny Sun

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github.com/mystica-l | Personal Website : mystica-l.github.io

Experience

Web Application Developer Aug. 2024 - Present
Clemson University Center for Workforce Development *Clemson, SC*

- **Technologies:** Python, Django, XBlocks, Docker, Tutor
- Currently focused on understanding the technology stack of the Open EdX platform: an LMS/CMS
- Preparing for future responsibilities of: feature development, code review, streamlining the code base, and general maintenance of CUCWD's Open EdX platform (Educate Workforce: an LMS/CMS for 2-year colleges)

Summer Undergraduate Researcher June 2024 - July 2024
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
- Collaborated with other TAs and the professor to ensure the success of all students

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

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, Software Development Foundations (IP), Intro to Computer Organization (IP)

Projects

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

- Python program that trains a neural network machine learning model to play Flappy Bird

Poker Hand Evaluator | *C++, Pointers, Basic Combinatorics, OOP, Makefiles*

- Terminal program that evaluates the strength of players' hands in Texas Hold Em' Poker

Personal Website | *HTML, CSS*

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

Technical Skills

Languages: C/C++, Java, Python
Developer Tools: Git, GitHub, VS Code, Emacs, Vim, Matplotlib, Pandas, Numpy, MPI, Anaconda, Jupyter Notebooks, 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++

South Carolina Palmetto Fellows Scholarship Recipient
2021 - 2022 VEX Robotics South Carolina State Championship: Tournament Champions