Kenny Sun

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Education

Clemson University Aug. 2023 – Dec. 2026

Bachelor of Science in Computer Science, Minor in Business Administration, Honors College *GPA: 4.00 / 4.00*

- CW: Algorithms and Data Structures, Software Development Foundations (IP), Intro to Computer Organization (IP)

Experience

Web Application Developer Aug. 2024 - Present

Clemson University Center for Workforce Development *Clemson, SC*

- **Technologies:** Python, Django, Docker, XML
- Provided general support for CUCWD's Open EdX platform (Educate Workforce: a Learning and Content Management System) and its users
- Contributed to feature development, including a Django management command to export OpenEdX courses to IMSCC protocol to allow CUCWD to utilize multiple CMS
- Assisted with code review, streamlining the code base, and fixing bugs

Summer Undergraduate Researcher June 2024 - July 2024

College of Staten Island *Staten Island, NY*

- **Technologies:** Python, 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 including KNN and Random Forest to validate flood sensor data
- Analyzed the computation complexity of machine learning models with parallel processing

Undergraduate Computer Science Teaching Assistant Jan. 2024 - Apr. 2024

Clemson University School of Computing *Clemson, SC*

- **Technologies:** C++, C, Emacs, Vim, VS Code
- Co-facilitated lab sections for CPSC 1020 through teaching lessons and answering student questions
- Hosted office hours to help struggling students understand class material
- Collaborated with the professor and fellow TAs to support student success

Projects

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

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

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

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

Technical Skills

Languages: C / C++, Python, Java
Frameworks: Django, JUnit
Developer Tools: GitHub, VS Code, IntelliJ, Jupyter Notebooks, Docker, Emacs, VIM
Libraries: pandas, NumPy, Matplotlib, mpi4py, scikit-learn

Awards

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

- Worked with a team of 4 to design and 3D-print a programmable car using Fusion 360 and C++

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

Extracurriculars

Clemson University

- Rocket Club, Software Engineering Team - Member Sep. 2024 – Present
  - Led development for a GUI & CLI to gather and display real-time data during rocket launches
- Intramural Volleyball - Captain Sep. 2024 – Present
- Association for Information Systems - Member Aug. 2023 – Present

Robotics Education & Competition Foundation

- VEX Robotics - Volunteer Aug. 2021 – Present
  - Assisted in setup for robotic tournaments across the state to promote STEM education