KENNY SUN

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OBJECTIVE

Sophomore majoring in Computer Science with hands-on experience in web development and machine learning. Seeking a Summer 2025 internship to leverage skills in Python, C/C++, Java, and Django.

EXPERIENCE

Web Application Developer   Aug. 2024 - Present
Clemson University Center for Workforce Development   *Clemson, SC*
- **Technologies:** Python, Django, Docker, XML
- Provides general support for CUCWD's Open EdX platform (Educate Workforce: an LMS/CMS) and its users
- Contributes to feature development, including a Django management command to export courses in IMSCC protocol
- Assists 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
- Collaborated with the professor and fellow TAs to support student success

EDUCATION

Clemson University   Aug. 2023 – May 2027
Bachelor of Science in Computer Science, Minor in Business Administration, Honors College   *GPA: 4.00 / 4.00*
- Course Work: 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 model to autonomously 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

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

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
  - Lead developer for a GUI and 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

J.L. Mann High School
- VEX Robotics Club - President   Aug. 2022 – May 2023
  - Led a 60 member robotics club, collaborated with our mentor and executives to achieve success
- VEX Robotics Club - Volunteer   Aug. 2021 – Present
  - Assists in setup for robotic tournaments to promote STEM education