

Kausthubh Konuru

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EDUCATION

University of Florida

Bachelor of Science in Computer Science, Minor in Mathematics and Statistics

Gainesville, FL

Aug. 2022 – May 2026

- GPA: 3.97/4.00
- Relevant Courses: Data Structures, Natural Language Processing, Introduction to Software Engineering

TECHNICAL SKILLS

Languages: Python, C++, Java, JavaScript, HTML/CSS, R

Frameworks: React, Node.js, Flask

Libraries: pandas, NumPy, Matplotlib, scikit-learn

EXPERIENCE

Undergraduate Research Assistant

April 2023 – Present

University of Florida Center of Applied Optimization

Gainesville, FL

- Built a data pipeline on a Linux-based University of Florida supercomputer, HiPerGator, to create the feature dataset for developing classification machine learning models
- Developing classification machine learning models to fine-tune the performance of a Constraint Integer Program solver, reducing the processing time through strategic parameter optimization
- Tested the classification machine learning models and the computation time of the solver was reduced by 20%

Learning Assistant

Aug. 2023 – Present

University of Florida

Gainesville, FL

- Assist the professor in coordinating and preparing for Calculus 1 lectures
- Facilitate interactive classroom sessions to guide students through the completion of worksheets and to foster a dynamic learning environment

Section Leader

May 2023 – Jun. 2023

Stanford Code In Place

Remote

- Conducted weekly interactive sessions with a group of 12 students, teaching key concepts such as graphical programming and data structures from Stanford's CS106A curriculum
- Assisted students in solving weekly programming challenges and guided them through their projects, offering tailored help to improve coding skills and project outcomes

PROJECTS

Word Similarity | Python, JavaScript, Flask, HTML

Aug. 2023

- Developed a full-stack web application that uses Flask to create a server and a RESTful API endpoint
- Implemented a graph data structure and the Dijkstra and Breadth First Search algorithms to determine the distance between two words in a graph

Formula 1 Data Analytics | Python, Flask, HTML

Jun. 2023 – Aug. 2023

- Employed Dash Plotly to create engaging data visualizations, effectively contrasting lap speeds and gear shifts between two drivers
- Implemented a RESTful API and web scraping to get data on drivers, a Flask server for the website, and HTML and Bootstrap for the user interface

ACTIVITIES

American Statistical Association UF chapter

Sep. 2023 – Present

Workshop Director

- Develop and teach workshops involving the intersection of computer science and statistics to the 100+ members
- Collaborate with other members of the executive board to plan workshops and guest lectures

Association of Computer Engineers

Mar. 2023 – May 2023

Website Development Team

- Worked as part of the team to redesign the organization's website with a new, modern user interface
- Managed the development of the login page for the website using React and Bootstrap