

John Suchanek

EDUCATION

Clemson University, Bachelor of Science in Mathematical Sciences with a Minor in Computer Science

- **GPA:** 3.9
- **Expected Graduation:** May 2025

Relevant Coursework:

Mathematics/Statistics - Calculus of Several Variables, Ordinary Differential Equations, Statistics for Science and Engineering, Linear Algebra, Theory of Probability, Linear Programming, General Physics

Computer Science - Artificial Intelligence, Machine Learning, Software Development, Algorithms and Data Structures, Computer Vision

TECHNICAL SKILLS

Programming Languages: Python, Java, R, MATLAB, C/C++

Embedded Systems: Raspberry Pi, Unix/Linux

Other Technologies: Microsoft Office Suite, GitHub, Anaconda, Palmetto Cluster

PROJECTS

Large Language Model Empowered Real Time Scene Narration for Visually Impaired | February 2024 - Present

- Assisted in a project with the aim to combine the powers of YOLO's object detection and ChatGPT's natural language processing to enhance visually impaired accessibility through scene narration and navigation.

Autonomous Drone Research Project | October 2023 - Present

- Research project in collaboration with a graduate student dedicated to the development of an autonomous drone equipped with a robotic arm and empowered to accomplish targeted tasks through computer vision and reinforcement learning.
- Employed a diverse range of technologies, including Python, OpenCV, Raspberry Pi, PX4, RealSense D415, YOLOv8 image segmentation model, and etc.

Postmortem Interval Research with Watt AI | August 2023 - January 2024

- Focused on data analysis of a postmortem interval predictor model to provide the team a deeper comprehension of the data and the postmortem interval.
- Utilized various technologies: arcGIS, Plotly, Pandas, scikit-learn, pretrained models, etc.

Professor Grade Distribution Calculator (Automation)

- Python script that parses course reports over the past 3 years and outputs the professors with the highest grades for the course a user inputs.

ACTIVITIES

President of Clemson AI Club | May 2023 - Present

- Organized weekly, hour long meetings for students by leading presentations, discussions and projects relating to topics in the field of Artificial Intelligence.
- Transformed the club by welcoming students from diverse educational backgrounds to join the expanding community around Artificial Intelligence. This resulted in the club more than doubling in membership.

Other

- Cru, Math Club, and intramural basketball and soccer.

WORK EXPERIENCE

Undergraduate Teaching Assistant at Clemson University | August 2023 - Present

- In charge of a lab with 30+ students that met twice a week, held office hours throughout the week, and worked with a team of professors and other TAs.
- Passionate about making the field of computer science more accessible to all.