James Owens

Computer Science and Game Studies Student

Contact

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GitHub: jowen005
https://jowen005.github.io/

Education

Old Dominion University
Norfolk, VA 23529
August 2020 – May 2024 (Expected)
Current GPA: 3.74/4.0
Relevant Coursework: Software Engineering, Database Concepts, Artificial Intelligence, Object Oriented Programming, Computer Architecture, Data Structures and Algorithms Computational Methods, Operating Systems, Human Computer Interaction

Key Skills

Languages: Python, C++, Java, C#, C, SQL, Matlab, HTML, Markdown, LaTex
Software: Git, Unity, Microsoft Office Access, Django REST Framework, Docker, Gradle, Junit, scikit-learn, Pandas, Numpy
IDEs: VS Code, PyCharm, Eclipse, Jupyter Lab
Operating Systems: Linux, Windows

Outreach

Event Aide, Trick or Research, Norfolk, VA, 2022

Server, The Center, Norfolk, VA, 2023

Objective

Passionate, multidisciplinary, lifelong learner seeking an internship related to machine learning, artificial intelligence, or extended reality applications.

Experience

September 2021 - Present
Undergraduate Research Assistant • Department of Computer Science, Old Dominion University. • Worked with a team of graduate students and faculty developing machine learning models to predict cognitive load from eye tracking metrics and performing statistical analysis. Presented the research at an undergraduate research symposium.
Advisor: Sampath Jayarathna | sampath@cs.odu.edu | (757)683-7787

May 2022 – July 2022 & May 2023 – July 2023
Pauley Heart Center Undergraduate Research Fellowship • Worked with a faculty mentor to develop machine learning models to predict heart failure risk in chemotherapy patients using cardio-oncology data and presented the work at ABRCMS 2023.
Advisor: Yaorong Ge | yge@uncc.edu | (704)687-1951

Publications

- James Owens, Gavindya Jayawardena, Yasasi Abeysinghe, Vikas G. Ashok, and Sampath Jayarathna, "Objective Measure of Working Memory Capacity via Advance Gaze Measures", Old Dominion University Undergraduate Research Symposium, 2022. (https://digitalcommons.odu.edu/undergradsymposium/2022/posters/22)

Awards and Honors

- Dean's List, Old Dominion University
- National Society of Collegiate Scholars, Member
- Intern Readiness Certificate, National Society of High School Scholars
- Annual Biomedical Conference for Minoritized Scientists 2023 Oral Presenter

Projects

Objective Measure of Working Memory Capacity via Gaze Measures
- Using machine learning methods to predict NASA-TLX scores from advanced gaze measures.
- Tools: Python, Scikit-Learn, Pandas, Numpy, Scipy, GitHub, PyCharm

LowCalChow Web App Prototype
- Team software project
- Tools Used: VS Code, Git, Django REST Framework, Docker, MySQL Workbench, Insomnia