Viraj Janeja

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Objective

- Aiming to build technical experience while applying and expanding my current skillset in code development and software engineering

Technical Skills

- **Programming Languages:** Java, Python, C++, HTML/CSS, C#
- **Platforms:** VSCode, Jupyter Notebook, basic linux, basic Unity
- **Misc.:** Machine learning(ML), Software development life cycle, git, Data preprocessing/analysis, strong interpersonal communication, Java Swing
- **Relevant Coursework:** Calculus I, Calculus II, Statistics, Foundations of linear algebra, Discrete mathematics, CS201, CS202 (C++)

Education

University of Maryland, Baltimore County (UMBC)
Bachelor of Science in Computer Science
GPA: 3.471
Baltimore, MD
2024-2028

Centennial High School
Ellicott City, MD
2020-2024

- 2023-2024 AP Scholar with Distinction award
- Senator Katie Fry Hester Scholarship, finalist
- Computer science and Humanities dual track

Work Experience

Undergraduate Researcher November 2024-Present
UMBC Vinjamuri Lab

- Constructed a VR scenario built in Unity using C#, Python, and datasockets to translate user movements as seen on an rgb camera to a simulated model for the purpose of a publication related to mental health
- Presented resulting findings at annual BRAIN conference
- Mentored a group of students in conducting an experiment and submitting a corresponding poster

High School Research Intern May 2022 - January 2024
UMBC Informatics for Human Flourishing Lab - Mentor Dr. Karen Chen

- Implemented data science and AI algorithms for functional near-infrared spectroscopy (fNIRS) data
- Delved into the removal of motion artifacts using machine learning (ML)
- Performed literature review for fNIRS to summarize the state of the art research
- Analyzed fNIRS data using Python in Jupyter Notebooks
- Assisting in writing an unpublished paper
- Published overall findings at the annual ADSA conference

Summer Intern June 2023 - August 2023
Technuf LLC

- Developed timesheet software product components including webdev, application development, and software development, all of which contributed to a selling product

LLM Software Trainer FreeLance
Outlier AI

- Evaluated/analyzed LLM Software output when presented with cs related prompt

Publications

1. **Janeja V,** Chen K, Exploring the Relationship between Neural and Physiological signals in an Immersive Virtual Buffet Environment, 2023 Academic Data Science Alliance Annual Meeting, October 24-27, 2023 at the University of Texas at San Antonio
2. P. Olikkal1, O. Mebaghanje, **V. Janeja,** G. Moharrer, A. Kleinsmith, A. Clemmensen, R. Vinjamuri, The role of interlimb coordination and human-robot symbiosis in dance interventions for mental health and wellbeing, Published at the College of Engineering and Information Technology Research Day, 2025

Additional Information

Volunteer Experience: Techgirls - an after school program to give elementary schoolers a hands-on experience with STEM activities and potential careers
Interests/Hobbies: Gym(2 plate bench pr), Tennis, Wrestling, German, MMA, game development, basic nutrition, hobby based software development