

# RIYA KANANI

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## EDUCATION

<b>University of Maryland</b> , College of Computer, Mathematical, and Natural Sciences Bachelor of Science, Computer Science and Immersive Media Design	May 2025 GPA: 3.85
<b>Relevant Coursework:</b> Algorithms, Discrete Structures, Computer Systems, Creative Coding, Calculus II, Linear Algebra, Data Science, Computer Vision, AI, Data Structures, Object Oriented Programming, Statistics, Android App Development	

## WORK EXPERIENCE

<b>Cortina Productions</b> <i>Software Engineer Intern</i>	McLean, VA Jun 2025 – Aug 2025
<ul style="list-style-type: none"><li>Gained full-stack familiarity with the Unity development pipeline, including render pipelines (URP/HDRP), asset management, and deployment workflows.</li><li>Collaborated in a multi-developer environment using Git version control (Bitbucket) and SourceTree for branch management and code reviews.</li><li>Integrated Nutitrack/Orbbec gesture tracking APIs with Unity FBX avatars to mirror real-time user movement.</li><li>Developed boundary detection systems that monitor physical positioning and trigger timeout protocols when users step out of the interactive zone utilizing C#.</li><li>Built Unity front-end experiences driven by a producer-facing backend interface, using custom APIs to dynamically load assets and scene data.</li></ul>	
<b>University of Maryland</b> <i>Teaching Assistant: Introduction to Immersive Media</i>	College Park, MD Aug 2023 – May 2024
<ul style="list-style-type: none"><li>Provided debugging assistance for Unity Engine projects and C# scripts <b>twice weekly</b> in class and during <b>weekly office hours</b>.</li><li>Guided students in transforming ideas into successful projects and provided constructive feedback on <b>weekly assignments</b> to support academic and professional growth.</li></ul>	
<b>Rock Creek Group</b> <i>Data and Reporting Intern</i>	Washington, DC Summer 2023
<ul style="list-style-type: none"><li>Fully Developed <b>5 key software solutions</b> for data modeling, visualization, and computation, enhancing efficiency while ensuring reliability through rigorous testing and debugging of team scripts, including a dynamic drawdown calculator that allowed user inputs for precise calculations.</li></ul>	

## RESEARCH

<b>University of Maryland</b> <i>Undergraduate Researcher: SuperFoldAE</i>	College Park, MD Jun 2024 – Current
<ul style="list-style-type: none"><li>Designed and implemented a supervised autoencoder model with auxiliary reconstruction tasks to enhance model generalization and stability for protein fold prediction, achieving an <b>88.73% accuracy</b>.</li><li>Leveraged a high-performance computing cluster for efficient model training and data processing.</li><li>Presented findings at the Computational Structural Biology Workshop (CSBW), showcasing advancements in deep learning for biological data interpretation.</li><li>Secured <b>\$1,200</b> in professional development funding to support participation.</li></ul>	
<b>NASA Ocean Project</b> <i>Researcher</i>	College Park, MD Aug 2023 – May 2024
<ul style="list-style-type: none"><li>Authored C# scripts to simulate phytoplankton responding to camera input data in Unity Engine.</li><li>Played a key role in <b>weekly brainstorming</b> sessions to create an effective method to represent phytoplankton across various zoom scales, ensuring visual cohesion and engaging the user.</li></ul>	
<b>Cloud Computing Research Lab</b> <i>Peer Research Mentor</i>	College Park, MD Aug 2021 – May 2023
<ul style="list-style-type: none"><li>Collaborated with colleagues on an image classification model, leveraging a convolutional neural network, AlexNet, in conjunction with a decision tree classifier that integrated geospatial data, attained <b>81.29% accuracy</b>.</li><li>Utilized the NASA Globe Clouds database to curate a data set with around <b>400 datapoints</b> comprising of cloud images with essential metadata attributes including longitude, latitude, and timestamp.</li></ul>	

## SKILLS

Software: Unity Engine, Adobe Suite, Microsoft Office Suite, Cinema4D, Maya  
Languages: Java, Python, Linux, C, MIPS Assembly, Ocaml, Ruby, Rust, Latex, C#, C++, JavaScript, HTML, SQL